

dis hist

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FILE 'APOLLIT, MEDLINE, BIOSIS, EMBASE, BABS, CAPLUS, CBNB, CIN, COMPENDEX, DISSABS, EMA, IFIPAT, NTIS, PASCAL, PROMT, RAPRA, SCISEARCH, TEXTILETECH, USPATFULL, USPATOLD, USPAT2, WPIFV, WPINDEX, WSCA, WTEXTILES' ENTERED AT 15:26:19 ON 02 NOV 2007

L1 192059 S NEUROLOGICAL AND DISORDER
L2 3665 S L1 AND (MANNOSE OR GULOSE OR GLUCOSE-6-PHOSPHATE)
L3 1090 S L2 AND (CAMP AND MODULATOR)
L4 11 S L3 AND ONCOMODULIN
L5 1062 S L3 AND (STROKE OR ANEURISM OR SPINAL OR PARKINSON OR SCLEROS
L6 832 S L5 AND MACROPHAGE
L7 832 S L6 AND FACTOR
L8 661 S L7 AND TGF
L9 620 S L8 AND ALZHEIMER
L10 10 S L9 AND ONCOMODULIN
L11 619 S L9 AND NEURON?
L12 408 S L8 AND GLAUCOMA
L13 368 S L12 AND INTRAOCULAR
L14 367 S L13 AND INJECT?
L15 6805 S L1 AND RETINA?
L16 358 S L14 AND RETINA?
L17 5 S L10 AND MACULAR

FILE 'CAPLUS' ENTERED AT 15:43:13 ON 02 NOV 2007

L18 69 S BENOWITZ LARRY I?/AU
L19 5 S L18 AND NEUROLOGICAL
L20 24 S L1 AND MANNOSE
L21 2 S L1 AND GULOSE
L22 16 S L1 AND GLUCOSE-6-PHOSPHATE

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NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/Caplus enhanced with utility model patents from China
NEWS	6	JUL 16	CAplus enhanced with French and German abstracts
NEWS	7	JUL 18	CA/Caplus patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	12	AUG 13	CA/Caplus enhanced with additional kind codes for granted patents
NEWS	13	AUG 20	CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS	14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	15	AUG 27	USPATOLD now available on STN
NEWS	16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	18	SEP 13	FORIS renamed to SOFIS
NEWS	19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	20	SEP 17	CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS	21	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS	22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	23	OCT 02	CA/Caplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	24	OCT 19	BEILSTEIN updated with new compounds
NEWS EXPRESS	19	SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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FILE 'USPATFULL' ENTERED AT 15:26:19 ON 02 NOV 2007
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FILE 'USPATOLD' ENTERED AT 15:26:19 ON 02 NOV 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:26:19 ON 02 NOV 2007
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=> s neurological and disorder
L1 192059 NEUROLOGICAL AND DISORDER

=> s l1 and (mannose or gulose or glucose-6-phosphate)
17 FILES SEARCHED...
L2 3665 L1 AND (MANNOSE OR GULOSE OR GLUCOSE-6-PHOSPHATE)

=> s l2 and (cAMP and modulator)
L3 1090 L2 AND (CAMP AND MODULATOR)

=> s l3 and oncomodulin
L4 11 L3 AND ONCOMODULIN

=> dis l4 1-11 bi abs

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in at least one of the files. Refer to file specific help messages
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individual files.

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):bib

L4 ANSWER 1 OF 11 IFIPAT COPYRIGHT 2007 IFI on STN.
AN 11017314 IFIPAT;IFIUDB;IFICDB
TI METHODS AND COMPOSITIONS FOR TREATMENT OF NEUROLOGICAL

DISORDER

INF Benowitz; Larry I., Newton, MA, US

IN Benowitz Larry I

PAF Children's Medical Center Corporation, Boston, MA, US

PA Children's Medical Center Corp The (10709)

AG DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA, 02110-2131, US

PI US 2005256059 A1 20051117

AI US 2003-528685 20030925

WO 2003-US30466 20030925

20050718 PCT 371 date

20050718 PCT 102(e) date

PRAI US 2002-414063P 20020927 (Provisional)

FI US 2005256059 20051117

DT Utility; Patent Application - First Publication

FS CHEMICAL APPLICATION

ED Entered STN: 18 Nov 2005

Last Updated on STN: 18 Nov 2005

CLMN 26

L4 ANSWER 2 OF 11 USPATFULL on STN

AN 2006:215041 USPATFULL

TI Polynucleotide encoding a novel cysteine protease of the calpain superfamily, CAN-12, and variants thereof

IN Chen, Jian, Princeton, NJ, UNITED STATES

Feder, John N., Belle Mead, NJ, UNITED STATES

Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES

Seiler, Steven, Pennington, NJ, UNITED STATES

Vaz, Roy J., North Branch, NJ, UNITED STATES

Duclos, Franck, Washington Crossing, PA, UNITED STATES

PI US 2006183196 A1 20060817

AI US 2006-407134 A1 20060419 (11)

RLI Division of Ser. No. US 2002-116519, filed on 3 Apr 2002, PENDING

PRAI US 2001-281253P 20010403 (60)

US 2001-288768P 20010504 (60)

US 2001-296180P 20010606 (60)

US 2001-300620P 20010625 (60)

DT Utility

FS APPLICATION

LREP LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US

CLMN Number of Claims: 24

ECL Exemplary Claim: 1-23

DRWN 27 Drawing Page(s)

LN.CNT 29767

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 11 USPATFULL on STN

AN 2005:293510 USPATFULL

TI Methods and compositions for treatment of neurological disorder

IN Benowitz, Larry I., Newton, MA, UNITED STATES

PA Children's Medical Center Corporation, Boston, MA, UNITED STATES (U.S. corporation)

PI US 2005256059 A1 20051117

AI US 2003-528685 A1 20030925 (10)

WO 2003-US30466 20030925

20050718 PCT 371 date

PRAI US 2002-414063P 20020927 (60)

DT Utility

FS APPLICATION

LREP DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA, 02110-2131, US

CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 1625
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 11 USPATFULL on STN
AN 2005:69453 USPATFULL
TI Methods and compositions for producing a neurosalutary effect in a subject
IN Benowitz, Larry I., Newton Square, MA, UNITED STATES
PI US 2005059594 A1 20050317
AI US 2004-894351 A1 20040719 (10)
RLI Continuation of Ser. No. US 2001-872347, filed on 1 Jun 2001, ABANDONED
PRAI US 2000-208778P 20000601 (60)
DT Utility
FS APPLICATION
LREP David S. Resnick, NIXON PEABODY LLP, 100 Summer Street, Boston, MA, 02110
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1373
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 11 USPATFULL on STN
AN 2004:44514 USPATFULL
TI Polynucleotides encoding novel human mitochondrial and microsomal glycerol-3-phosphate acyl-transferases and variants thereof
IN Farrelly, Dennis, Monmouth Junction, NJ, UNITED STATES
Chen, Jian, Princeton, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Wu, Shujian, Langhorne, PA, UNITED STATES
Bassolino, Donna A., Hamilton, NJ, UNITED STATES
Krystek, Stanley R., Ringoes, NJ, UNITED STATES
PI US 2004033506 A1 20040219
AI US 2002-308128 A1 20021202 (10)
PRAI US 2001-334904P 20011130 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 37 Drawing Page(s)
LN.CNT 28557
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 11 USPATFULL on STN
AN 2004:18791 USPATFULL
TI Polynucleotide encoding a novel cysteine protease of the calpain superfamily, Protease-42
IN Duclos, Franck, Washington Crossing, PA, UNITED STATES
Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nayeem, Akbar, Newtown, PA, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
PI US 2004014093 A1 20040122
AI US 2003-390585 A1 20030314 (10)
PRAI US 2002-364941P 20020314 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O

BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 19269
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 11 USPATFULL on STN
AN 2003:166515 USPATFULL
TI Polynucleotide encoding a novel cysteine protease of the calpain
superfamily, CAN-12, and variants thereof
IN Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Vaz, Roy J., North Branch, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES
PI US 2003114373 A1 20030619
US 7186564 B2 20070306
AI US 2002-116519 A1 20020403 (10)
PRAI US 2001-281253P 20010403 (60)
US 2001-288768P 20010504 (60)
US 2001-296180P 20010606 (60)
US 2001-300620P 20010625 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O
BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 30149
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 11 USPATFULL on STN
AN 2002:221781 USPATFULL
TI Methods and compositions for producing a neurosalutary effect in a
subject
IN Benowitz, Larry I., Newton Square, MA, UNITED STATES
PI US 2002119923 A1 20020829
AI US 2001-872347 A1 20010601 (9)
PRAI US 2000-208778P 20000601 (60)
DT Utility
FS APPLICATION
LREP LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1372
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 11 USPAT2 on STN
AN 2003:166515 USPAT2
TI Polynucleotides encoding novel cysteine proteases of the calpain
superfamily, CAN-12v1 and CAN-12v2.
IN Chen, Jian, Princeton, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Vaz, Roy J., North Branch, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES
PA Bristol-Myers Squibb Company, Princeton, NJ, UNITED STATES (U.S.
corporation)
PI US 7186564 B2 20070306
AI US 2002-116519 20020403 (10)
PRAI US 2001-300620P 20010625 (60)

US 2001-296180P 20010606 (60)
US 2001-288768P 20010504 (60)
US 2001-281253P 20010403 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Nashed, Nashaat T.; Assistant Examiner: Moore, William W.
LREP D'Amico, Stephen C.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 27 Drawing Figure(s); 27 Drawing Page(s)
LN.CNT 30048
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 11 WPINDEX COPYRIGHT 2007 THE THOMSON CORP on STN
AN 2005-521956 [53] WPINDEX
DNN N2005-426370 [53]
TI Stimulating axonal growth of central nervous system (CNS) neurons, involves contacting CNS neurons with nogo receptor antagonist, and contacting CNS neurons with agent that activates growth pathway of CNS neurons
DC S03
IN BENOWITZ L I; FISCHER D; BENOWITZ L
PA (CHIL-N) CHILDRENS MEDICAL CENT
CYC 107
PIA WO 2005059515 A2 20050630 (200553)* EN 74[9]
EP 1695061 A2 20060830 (200657) EN
JP 2007514748 W 20070607 (200739) JA 49
ADT WO 2005059515 A2 WO 2004-US42255 20041216; EP 1695061 A2 EP 2004-814439 20041216; EP 1695061 A2 WO 2004-US42255 20041216; JP 2007514748 W WO 2004-US42255 20041216; JP 2007514748 W JP 2006-545428 20041216
FDT EP 1695061 A2 Based on WO 2005059515 A; JP 2007514748 W Based on WO 2005059515 A
PRAI US 2003-529833P 20031216

L4 ANSWER 11 OF 11 WPINDEX COPYRIGHT 2007 THE THOMSON CORP on STN
AN 2004-316013 [29] WPINDEX
DNC C2004-119849 [29]
TI Use of hexose (e.g. D-mannose) to treat/alleviate neurological disorders such as traumatic brain injury, stroke, cerebral aneurysm, Parkinson's disease, amyotrophic lateral sclerosis and Alzheimer's disease
DC B03; B04
IN BENOWITZ L I
PA (CHIL-N) CHILDRENS MEDICAL CENT
CYC 104
PIA WO 2004028468 A2 20040408 (200429)* EN 59[9]
AU 2003272728 A1 20040419 (200462) EN
EP 1542702 A2 20050622 (200541) EN
US 20050256059 A1 20051117 (200576) EN
JP 2006503847 W 20060202 (200611) JA 35
AU 2003272728 A8 20051103 (200629) EN
CN 1703227 A 20051130 (200636) ZH
ADT WO 2004028468 A2 WO 2003-US30466 20030925; US 20050256059 A1 Provisional US 2002-414063P 20020927; AU 2003272728 A1 AU 2003-272728 20030925; AU 2003272728 A8 AU 2003-272728 20030925; EP 1542702 A2 EP 2003-754929 20030925; EP 1542702 A2 WO 2003-US30466 20030925; US 20050256059 A1 WO 2003-US30466 20030925; JP 2006503847 W WO 2003-US30466 20030925; JP 2006503847 W JP 2004-540004 20030925; US 20050256059 A1 US 2005-528685 20050718; CN 1703227 A CN 2003-825428 20030925
FDT AU 2003272728 A1 Based on WO 2004028468 A; EP 1542702 A2 Based on WO 2004028468 A; JP 2006503847 W Based on WO 2004028468 A; AU 2003272728 A8 Based on WO 2004028468 A
PRAI US 2002-414063P 20020927

=> dis hist

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L1 192059 S NEUROLOGICAL AND DISORDER
L2 3665 S L1 AND (MANNOSE OR GULOSE OR GLUCOSE-6-PHOSPHATE)
L3 1090 S L2 AND (CAMP AND MODULATOR)
L4 11 S L3 AND ONCOMODULIN

=> s l3 and (stroke or aneurism or spinal or parkinson's or sclerosis or dementia or Picks or huntington or shy-dranger or atropy or Gilles or Meige or parapleg?)
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off or masking.

=> s l3 and (stroke or aneurism or spinal or parkinson or sclerosis or dementia or Picks or huntington or shy-dranger or atropy or Gilles or Meige or parapleg?)
19 FILES SEARCHED...
L5 1062 L3 AND (STROKE OR ANEURISM OR SPINAL OR PARKINSON OR SCLEROSIS OR DEMENTIA OR PICKS OR HUNTINGTON OR SHY-DRANGER OR ATROPY OR GILLES OR MEIGE OR PARAPLEG?)

=> s l5 and macrophage
L6 832 L5 AND MACROPHAGE

=> s l6 and factor
24 FILES SEARCHED...
L7 832 L6 AND FACTOR

=> s l7 and TGF
L8 661 L7 AND TGF

=> s l8 and Alzheimer
L9 620 L8 AND ALZHEIMER

=> s l9 and oncomodulin
L10 10 L9 AND ONCOMODULIN

=> s l9 and neuron?
L11 619 L9 AND NEURON?

=> s l8 and glaucoma
L12 408 L8 AND GLAUCOMA

=> s l12 and intraocular
L13 368 L12 AND INTRAOCULAR

=> s l13 and inject?
L14 367 L13 AND INJECT?

=> s l1 and retina?
L15 6805 L1 AND RETINA?

=> s l14 and retina?
L16 358 L14 AND RETINA?

=> s 110 and macular
L17 5 L10 AND MACULAR

=> dis 117 1-5 bib abs

L17 ANSWER 1 OF 5 IFIPAT COPYRIGHT 2007 IFI on STN
AN 11017314 IFIPAT;IFIUDB;IFICDB
TI METHODS AND COMPOSITIONS FOR TREATMENT OF NEUROLOGICAL
DISORDER
INF Benowitz; Larry I., Newton, MA, US
IN Benowitz Larry I
PAF Children's Medical Center Corporation, Boston, MA, US
PA Children's Medical Center Corp The (10709)
AG DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA,
02110-2131, US
PI US 2005256059 A1 20051117
AI US 2003-528685 20030925
WO 2003-US30466 20030925
20050718 PCT 371 date
20050718 PCT 102(e) date
PRAI US 2002-414063P 20020927 (Provisional)
FI US 2005256059 20051117
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
ED Entered STN: 18 Nov 2005
Last Updated on STN: 18 Nov 2005
CLMN 26
AB The present invention provides methods and compositions for producing a
neuros salutary effect in a subject useful in treatment of
neurological disorders, including retinal and optic
nerve damage, in a subject in need thereof. The method includes
administering to a subject a therapeutically effective amount of a
hexose, such as mannose.
CLMN 26

L17 ANSWER 2 OF 5 USPATFULL on STN
AN 2005:293510 USPATFULL
TI Methods and compositions for treatment of neurological
disorder
IN Benowitz, Larry I., Newton, MA, UNITED STATES
PA Children's Medical Center Corporation, Boston, MA, UNITED STATES (U.S.
corporation)
PI US 2005256059 A1 20051117
AI US 2003-528685 A1 20030925 (10)
WO 2003-US30466 20030925
20050718 PCT 371 date
PRAI US 2002-414063P 20020927 (60)
DT Utility
FS APPLICATION
LREP DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA,
02110-2131, US
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 1625
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides methods and compositions for producing a
neuros salutary effect in a subject useful in treatment of
neurological disorders, including retinal and optic
nerve damage, in a subject in need thereof. The method includes
administering to a subject a therapeutically effective amount of a
hexose, such as mannose.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 3 OF 5 USPATFULL on STN

AN 2004:44514 USPATFULL

TI Polynucleotides encoding novel human mitochondrial and microsomal glycerol-3-phosphate acyl-transferases and variants thereof

IN Farrelly, Dennis, Monmouth Junction, NJ, UNITED STATES

Chen, Jian, Princeton, NJ, UNITED STATES

Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES

Feder, John N., Belle Mead, NJ, UNITED STATES

Wu, Shujian, Langhorne, PA, UNITED STATES

Bassolino, Donna A., Hamilton, NJ, UNITED STATES

Krystek, Stanley R., Ringoes, NJ, UNITED STATES

PI US 2004033506 A1 20040219

AI US 2002-308128 A1 20021202 (10)

PRAI US 2001-334904P 20011130 (60)

DT Utility

FS APPLICATION

LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 37 Drawing Page(s)

LN.CNT 28557

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding Mitochondrial GPAT, Microsomal GPAT_hlog1, Microsomal GPAT_hlog2, Microsomal GPAT_hlog3, and/or Microsomal GPAT_hlog3_v1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel Mitochondrial GPAT, Microsomal GPAT_hlog1, Microsomal GPAT_hlog2, Microsomal GPAT_hlog3, and/or Microsomal GPAT_hlog3_v1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 4 OF 5 USPATFULL on STN

AN 2004:18791 USPATFULL

TI Polynucleotide encoding a novel cysteine protease of the calpain superfamily, Protease-42

IN Duclos, Franck, Washington Crossing, PA, UNITED STATES

Chen, Jian, Princeton, NJ, UNITED STATES

Feder, John N., Belle Mead, NJ, UNITED STATES

Nayeem, Akbar, Newtown, PA, UNITED STATES

Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES

PI US 2004014093 A1 20040122

AI US 2003-390585 A1 20030314 (10)

PRAI US 2002-364941P 20020314 (60)

DT Utility

FS APPLICATION

LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

CLMN Number of Claims: 24

ECL Exemplary Claim: 1

DRWN 19 Drawing Page(s)

LN.CNT 19269

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding Protease-42 polypeptides, fragments and homologues thereof. Also

provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel Protease-42 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 5 OF 5 WPINDEX COPYRIGHT 2007 THE THOMSON CORP on STN
AN 2004-316013 [29] WPINDEX
DNC C2004-119849 [29]
TI Use of hexose (e.g. D-mannose) to treat/alleviate neurological disorders such as traumatic brain injury, stroke, cerebral aneurysm, Parkinson's disease, amyotrophic lateral sclerosis and Alzheimer's disease
DC B03; B04
IN BENOWITZ L I
PA (CHIL-N) CHILDRENS MEDICAL CENT
CYC 104
PIA WO 2004028468 A2 20040408 (200429)* EN 59[9]
AU 2003272728 A1 20040419 (200462) EN
EP 1542702 A2 20050622 (200541) EN
US 20050256059 A1 20051117 (200576) EN
JP 2006503847 W 20060202 (200611) JA 35
AU 2003272728 A8 20051103 (200629) EN
CN 1703227 A 20051130 (200636) ZH
ADT WO 2004028468 A2 WO 2003-US30466 20030925; US 20050256059 A1 Provisional US 2002-414063P 20020927; AU 2003272728 A1 AU 2003-272728 20030925; AU 2003272728 A8 AU 2003-272728 20030925; EP 1542702 A2 EP 2003-754929 20030925; EP 1542702 A2 WO 2003-US30466 20030925; US 20050256059 A1 WO 2003-US30466 20030925; JP 2006503847 W WO 2003-US30466 20030925; JP 2006503847 W JP 2004-540004 20030925; US 20050256059 A1 US 2005-528685 20050718; CN 1703227 A CN 2003-825428 20030925
FDT AU 2003272728 A1 Based on WO 2004028468 A; EP 1542702 A2 Based on WO 2004028468 A; JP 2006503847 W Based on WO 2004028468 A; AU 2003272728 A8 Based on WO 2004028468 A
PRAI US 2002-414063P 20020927
US 2005-528685 20050718
AN 2004-316013 [29] WPINDEX
AB WO 2004028468 A2 UPAB: 20060203
NOVELTY - Treatment of a neurological disorder comprises the administration of a hexose (I).
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
(1) an article of manufacture that comprises a pharmaceutical agent (A) (comprising D-mannose) contained within a packaging material which comprises a label indicating that (A) may be administered together with a carrier for a sufficient term at an effective dose to treat a neurological disorder; and
(2) a formulation comprising D-mannose, a cyclic adenosine monophosphate (cAMP) modulator and a carrier.
ACTIVITY - Neuroprotective; Vulnerary; Cerebroprotective; Vasotropic; Antiparkinsonian; Nootropic; CNS-Gen.; Anticonvulsant; Neuroleptic; Muscular-Gen.; Relaxant; Antiinflammatory; Ophthalmological.
The axon-promoting effects of hexose sugars and related compounds were tested on retinal ganglion cells in culture. (I) exhibited a median effective dosage value of approximately 10 microM.
MECHANISM OF ACTION - None given in the source material.
USE - Treatment with (I) reverses neuronal damage and treats/alleviates neurological disorders (preferably traumatic brain injury, stroke, cerebral aneurysm,

Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease, diffuse cerebral cortical atrophy, Lewy-body dementia, Pick disease, mesolimbocortical dementia, thalamic degeneration, Huntington's chorea, cortical-striatal-spinal degeneration, cortical-basal ganglionic degeneration, cerebocerebellar degeneration, familial dementia with spastic paraparesis, polyglucosan body disease, Shy-Drager syndrome, olivopontocerebellar atrophy, progressive supranuclear palsy, dystonia musculorum deformans, Hallervorden-Spatz disease, Meige syndrome, familial tremors, Gilles de la Tourette syndrome, acanthocytic chorea, Friedreich ataxia, Holmes familial cortical cerebellar atrophy, Gerstmann-Straussler-Scheinker disease, progressive spinal muscular atrophy, progressive balbar palsy, primary lateral sclerosis, hereditary muscular atrophy, spastic paraplegia, peroneal muscular atrophy, hypertrophic interstitial polyneuropathy, heredopathia atactica polyneuritiformis, optic neuropathy, ophthalmoplegia and, particularly, spinal cord injury (characterized by monoplegia, diplegia, paraplegia, hemiplegia and quadriplegia), retinal damage (resulting from macular degeneration) or optic nerve damage (resulting from glaucoma) (all claimed).

=> dis 110 1-10 bib abs

L10 ANSWER 1 OF 10 IFIPAT COPYRIGHT 2007 IFI on STN
AN 11017314 IFIPAT;IFIUDB;IFICDB
TI METHODS AND COMPOSITIONS FOR TREATMENT OF NEUROLOGICAL DISORDER
INF Benowitz; Larry I., Newton, MA, US
IN Benowitz Larry I
PAF Children's Medical Center Corporation, Boston, MA, US
PA Children's Medical Center Corp The (10709)
AG DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA, 02110-2131, US
PI US 2005256059 A1 20051117
AI US 2003-528685 20030925
WO 2003-US30466 20030925
20050718 PCT 371 date
20050718 PCT 102(e) date
PRAI US 2002-414063P 20020927 (Provisional)
FI US 2005256059 20051117
DT Utility; Patent Application - First Publication
FS CHEMICAL APPLICATION
ED Entered STN: 18 Nov 2005
Last Updated on STN: 18 Nov 2005
CLMN 26
AB The present invention provides methods and compositions for producing a neurosalutary effect in a subject useful in treatment of neurological disorders, including retinal and optic nerve damage, in a subject in need thereof. The method includes administering to a subject a therapeutically effective amount of a hexose, such as mannose.
CLMN 26

L10 ANSWER 2 OF 10 USPATFULL on STN
AN 2006:215041 USPATFULL
TI Polynucleotide encoding a novel cysteine protease of the calpain superfamily, CAN-12, and variants thereof
IN Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Vaz, Roy J., North Branch, NJ, UNITED STATES

Duclos, Franck, Washington Crossing, PA, UNITED STATES
PI US 2006183196 A1 20060817
AI US 2006-407134 A1 20060419 (11)
RLI Division of Ser. No. US 2002-116519, filed on 3 Apr 2002, PENDING
PRAI US 2001-281253P 20010403 (60)
US 2001-288768P 20010504 (60)
US 2001-296180P 20010606 (60)
US 2001-300620P 20010625 (60)
DT Utility
FS APPLICATION
LREP LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX
4000, PRINCETON, NJ, 08543-4000, US
CLMN Number of Claims: 24
ECL Exemplary Claim: 1-23
DRWN 27 Drawing Page(s)
LN.CNT 29767

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding CAN-12 polypeptides, fragments and homologues thereof. The present invention also provides polynucleotides encoding variants of CAN-12 polypeptides, CAN-12v1 and CAN-12v2. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel CAN-12, CAN-12v1, and CAN-12v2 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly neuro- and musculo-degenerative conditions. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 10 USPATFULL on STN
AN 2005:293510 USPATFULL
TI Methods and compositions for treatment of neurological disorder
IN Benowitz, Larry I., Newton, MA, UNITED STATES
PA Children's Medical Center Corporation, Boston, MA, UNITED STATES (U.S. corporation)
PI US 2005256059 A1 20051117
AI US 2003-528685 A1 20030925 (10)
WO 2003-US30466 20030925
20050718 PCT 371 date
PRAI US 2002-414063P 20020927 (60)
DT Utility
FS APPLICATION
LREP DAVID S. RESNICK, 100 SUMMER STREET, NIXON PEABODY LLP, BOSTON, MA, 02110-2131, US
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 14 Drawing Page(s)
LN.CNT 1625

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods and compositions for producing a neurosalutary effect in a subject useful in treatment of neurological disorders, including retinal and optic nerve damage, in a subject in need thereof. The method includes administering to a subject a therapeutically effective amount of a hexose, such as mannose.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 10 USPATFULL on STN

AN 2005:69453 USPATFULL
TI Methods and compositions for producing a neurosalutary effect in a subject
IN Benowitz, Larry I., Newton Square, MA, UNITED STATES
PI US 2005059594 A1 20050317
AI US 2004-894351 A1 20040719 (10)
RLI Continuation of Ser. No. US 2001-872347, filed on 1 Jun 2001, ABANDONED
PRAI US 2000-208778P 20000601 (60)
DT Utility
FS APPLICATION
LREP David S. Resnick, NIXON PEABODY LLP, 100 Summer Street, Boston, MA, 02110
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1373
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositions for producing a neurosalutary effect in a subject, such as modulating neuronal survival and/or regeneration in a subject, are provided. Pharmaceutical and packaged formulations are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 10 USPATFULL on STN
AN 2004:44514 USPATFULL
TI Polynucleotides encoding novel human mitochondrial and microsomal glycerol-3-phosphate acyl-transferases and variants thereof
IN Farrelly, Dennis, Monmouth Junction, NJ, UNITED STATES
Chen, Jian, Princeton, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Wu, Shujian, Langhorne, PA, UNITED STATES
Bassolino, Donna A., Hamilton, NJ, UNITED STATES
Krystek, Stanley R., Ringoes, NJ, UNITED STATES
PI US 2004033506 A1 20040219
AI US 2002-308128 A1 20021202 (10)
PRAI US 2001-334904P 20011130 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 37 Drawing Page(s)
LN.CNT 28557
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel polynucleotides encoding Mitochondrial GPAT, Microsomal GPAT_hlog1, Microsomal GPAT_hlog2, Microsomal GPAT_hlog3, and/or Microsomal GPAT_hlog3_v1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel Mitochondrial GPAT, Microsomal GPAT_hlog1, Microsomal GPAT_hlog2, Microsomal GPAT_hlog3, and/or Microsomal GPAT_hlog3_v1 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 10 USPATFULL on STN

AN 2004:18791 USPATFULL
TI Polynucleotide encoding a novel cysteine protease of the calpain
superfamily, Protease-42
IN Duclos, Franck, Washington Crossing, PA, UNITED STATES
Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nayeem, Akbar, Newtown, PA, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
PI US 2004014093 A1 20040122
AI US 2003-390585 A1 20030314 (10)
PRAI US 2002-364941P 20020314 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O
BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN 19 Drawing Page(s)
LN.CNT 19269

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding
Protease-42 polypeptides, fragments and homologues thereof. Also
provided are vectors, host cells, antibodies, and recombinant and
synthetic methods for producing said polypeptides. The invention further
relates to diagnostic and therapeutic methods for applying these novel
Protease-42 polypeptides to the diagnosis, treatment, and/or prevention
of various diseases and/or disorders related to these
polypeptides. The invention further relates to screening methods for
identifying agonists and antagonists of the polynucleotides and
polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 10 USPATFULL on STN

AN 2003:166515 USPATFULL
TI Polynucleotide encoding a novel cysteine protease of the calpain
superfamily, CAN-12, and variants thereof
IN Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Vaz, Roy J., North Branch, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES
PI US 2003114373 A1 20030619
US 7186564 B2 20070306
AI US 2002-116519 A1 20020403 (10)
PRAI US 2001-281253P 20010403 (60)
US 2001-288768P 20010504 (60)
US 2001-296180P 20010606 (60)
US 2001-300620P 20010625 (60)
DT Utility
FS APPLICATION
LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O
BOX 4000, PRINCETON, NJ, 08543-4000
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 30149

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding CAN-12
polypeptides, fragments and homologues thereof. The present invention
also provides polynucleotides encoding variants of CAN-12 polypeptides,
CAN-12v1 and CAN-12v2. Also provided are vectors, host cells,
antibodies, and recombinant and synthetic methods for producing said

polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel CAN-12, CAN-12v1, and CAN-12v2 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly neuro- and musculo-degenerative conditions. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 10 USPATFULL on STN
AN 2002:221781 USPATFULL
TI Methods and compositions for producing a neurosalutary effect in a subject
IN Benowitz, Larry I., Newton Square, MA, UNITED STATES
PI US 2002119923 A1 20020829
AI US 2001-872347 A1 20010601 (9)
PRAI US 2000-208778P 20000601 (60)
DT Utility
FS APPLICATION
LREP LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1372

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compositions for producing a neurosalutary effect in a subject, such as modulating neuronal survival and/or regeneration in a subject, are provided. Pharmaceutical and packaged formulations are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 10 USPAT2 on STN
AN 2003:166515 USPAT2
TI Polynucleotides encoding novel cysteine proteases of the calpain superfamily, CAN-12v1 and CAN-12v2.
IN Chen, Jian, Princeton, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Vaz, Roy J., North Branch, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES
PA Bristol-Myers Squibb Company, Princeton, NJ, UNITED STATES (U.S. corporation)
PI US 7186564 B2 20070306
AI US 2002-116519 20020403 (10)
PRAI US 2001-300620P 20010625 (60)
US 2001-296180P 20010606 (60)
US 2001-288768P 20010504 (60)
US 2001-281253P 20010403 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Nashed, Nashaat T.; Assistant Examiner: Moore, William W.
LREP D'Amico, Stephen C.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 27 Drawing Figure(s); 27 Drawing Page(s)
LN.CNT 30048

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding CAN-12 polypeptides, fragments and homologues thereof. The present invention also provides polynucleotides encoding variants of CAN-12 polypeptides, CAN-12v1 and CAN-12v2. Also provided are vectors, host cells,

antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel CAN-12, CAN-12v1, and CAN-12v2 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly neuro- and musculo-degenerative conditions. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 10 WPINDEX COPYRIGHT 2007 THE THOMSON CORP on STN

AN 2004-316013 [29] WPINDEX

DNC C2004-119849 [29]

TI Use of hexose (e.g. D-mannose) to treat/alleviate neurological disorders such as traumatic brain injury, stroke, cerebral aneurysm, Parkinson's disease, amyotrophic lateral sclerosis and Alzheimer's disease

DC B03; B04

IN BENOWITZ L I

PA (CHIL-N) CHILDRENS MEDICAL CENT

CYC 104

PIA WO 2004028468 A2 20040408 (200429)* EN 59[9]

AU 2003272728 A1 20040419 (200462) EN

EP 1542702 A2 20050622 (200541) EN

US 20050256059 A1 20051117 (200576) EN

JP 2006503847 W 20060202 (200611) JA 35

AU 2003272728 A8 20051103 (200629) EN

CN 1703227 A 20051130 (200636) ZH

ADT WO 2004028468 A2 WO 2003-US30466 20030925; US 20050256059 A1 Provisional US 2002-414063P 20020927; AU 2003272728 A1 AU 2003-272728 20030925; AU 2003272728 A8 AU 2003-272728 20030925; EP 1542702 A2 EP 2003-754929 20030925; EP 1542702 A2 WO 2003-US30466 20030925; US 20050256059 A1 WO 2003-US30466 20030925; JP 2006503847 W WO 2003-US30466 20030925; JP 2006503847 W JP 2004-540004 20030925; US 20050256059 A1 US 2005-528685 20050718; CN 1703227 A CN 2003-825428 20030925

FDT AU 2003272728 A1 Based on WO 2004028468 A; EP 1542702 A2 Based on WO 2004028468 A; JP 2006503847 W Based on WO 2004028468 A; AU 2003272728 A8 Based on WO 2004028468 A

PRAI US 2002-414063P 20020927

US 2005-528685 20050718

AN 2004-316013 [29] WPINDEX

AB WO 2004028468 A2 UPAB: 20060203

NOVELTY - Treatment of a neurological disorder comprises the administration of a hexose (I).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) an article of manufacture that comprises a pharmaceutical agent (A) (comprising D-mannose) contained within a packaging material which comprises a label indicating that (A) may be administered together with a carrier for a sufficient term at an effective dose to treat a neurological disorder; and

(2) a formulation comprising D-mannose, a cyclic adenosine monophosphate (cAMP) modulator and a carrier.

ACTIVITY - Neuroprotective; Vulnerary; Cerebroprotective; Vasotropic; Antiparkinsonian; Nootropic; CNS-Gen.; Anticonvulsant; Neuroleptic; Muscular-Gen.; Relaxant; Antiinflammatory; Ophthalmological.

The axon-promoting effects of hexose sugars and related compounds were tested on retinal ganglion cells in culture. (I) exhibited a median effective dosage value of approximately 10 microm.

MECHANISM OF ACTION - None given in the source material.

USE - Treatment with (I) reverses neuronal damage and treats/alleviates neurological disorders (preferably

traumatic brain injury, stroke, cerebral aneurysm, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease, diffuse cerebral cortical atrophy, Lewy-body dementia, Pick disease, mesolimbocortical dementia, thalamic degeneration, Huntington's chorea, cortical-striatal-spinal degeneration, cortical-basal ganglionic degeneration, cerebrotocerebellar degeneration, familial dementia with spastic paraparesis, polyglucosan body disease, Shy-Drager syndrome, olivopontocerebellar atrophy, progressive supranuclear palsy, dystonia musculorum deformans, Hallervorden-Spatz disease, Meige syndrome, familial tremors, Gilles de la Tourette syndrome, acanthocytic chorea, Friedreich ataxia, Holmes familial cortical cerebellar atrophy, Gerstmann-Straussler-Scheinker disease, progressive spinal muscular atrophy, progressive bulbar palsy, primary lateral sclerosis, hereditary muscular atrophy, spastic paraplegia, peroneal muscular atrophy, hypertrophic interstitial polyneuropathy, hereditary ataxia polyneuritis formis, optic neuropathy, ophthalmoplegia and, particularly, spinal cord injury (characterized by monoplegia, diplegia, paraplegia, hemiplegia and quadriplegia), retinal damage (resulting from macular degeneration) or optic nerve damage (resulting from glaucoma) (all claimed).

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

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<http://www.cas.org/infopolicy.html>

=> s benowitz larry I?/AU
L18 69 BENOWITZ LARRY I?/AU

=> s l18 and neurological
4127 NEUROLOGICAL
9 NEUROLOGICALS
4136 NEUROLOGICAL
(NEUROLOGICAL OR NEUROLOGICALS)
27817 NEUROL
29179 NEUROLOGICAL
(NEUROLOGICAL OR NEUROL)
L19 5 L18 AND NEUROLOGICAL

=> dis 119 1-5 bib abs

L19 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:290472 CAPLUS
DN 140:264527
TI Methods and compositions for treatment of neurological disorder
IN Benowitz, Larry I.
PA Children's Medical Center Corporation, USA
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004028468	A2	20040408	WO 2003-US30466	20030925
	WO 2004028468	A3	20041021		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2499170	A1	20040408	CA 2003-2499170	20030925
	AU 2003272728	A1	20040419	AU 2003-272728	20030925
	EP 1542702	A2	20050622	EP 2003-754929	20030925
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	CN 1703227	A	20051130	CN 2003-825428	20030925
	JP 2006503847	T	20060202	JP 2004-540004	20030925
	US 2005256059	A1	20051117	US 2005-528685	20050718
PRAI	US 2002-414063P	P	20020927		
	WO 2003-US30466	W	20030925		
AB	The invention provides methods and compns. for producing a neurosalutary effect in a subject useful for the treatment of neurol. disorders, including retinal and optic nerve damage, in a subject in need thereof. The method includes administration to a subject a therapeutically effective amount of a hexose, such as mannose.				

L19 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:184938 CAPLUS
DN 136:241683
TI Sequence of a novel bovine N-kinase and therapeutic uses for producing a neurosalutary effect
IN Benowitz, Larry I.
PA Children's Medical Center Corporation, USA
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020056	A2	20020314	WO 2001-US27691	20010907
	WO 2002020056	A3	20030313		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,			

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 7172871 B1 20070206 US 2000-656915 20000907
CA 2419456 A1 20020314 CA 2001-2419456 20010907
AU 200187118 A 20020322 AU 2001-87118 20010907
EP 1315514 A2 20030604 EP 2001-966619 20010907
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2004523470 T 20040805 JP 2002-524539 20010907
US 2007231376 A1 20071004 US 2006-640811 20061218
PRAI US 2000-656915 A 20000907
WO 2001-US27691 W 20010907

AB The invention provides protein sequence of a novel bovine N-kinase, which is an isoform of protein kinase MST-3, and methods for modulating its activity to produce a neurosalutary effects. These methods generally involve administering to subject a therapeutically effective amount of a compound that modulates the activity of N-kinase, or analog thereof. Pharmaceutical and packaged formulations including the compds. of the invention, e.g., compds. that modulate the activity of N-kinase, are also provided.

L19 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:72155 CAPLUS

DN 136:113174

TI Neurotrophic factors present in Schwann cell conditioned media, compositions containing the factors, and methods useful in treating neurological conditions

IN Benowitz, Larry I.; Irwin, Carleen A.; Jackson, Paul

PA Children's Medical Center Corporation, USA

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002006341	A1	20020124	WO 2001-US22315	20010716
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 2000-616287 A 20000714

AB The invention provides neurotrophic factors, present in Schwann cell conditioned media, compns. containing the factors, and methods useful in treating neurol. conditions. The neurotrophic factor is mammalian AF-1 (axogenesis factor 1). The neurotrophic factors can also be administered with a macrophage-derived factor or a cAMP modulator.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:885803 CAPLUS

DN 136:684

TI Methods and compositions for producing a neurosalutary effect in a subject

IN Benowitz, Larry I.

PA Children's Medical Center Corp., USA

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001091783	A2	20011206	WO 2001-US17895	20010601
	WO 2001091783	A3	20020711		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2411666	A1	20011206	CA 2001-2411666	20010601
	EP 1289540	A2	20030312	EP 2001-946052	20010601
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2003534385	T	20031118	JP 2001-587797	20010601
	US 2005059594	A1	20050317	US 2004-894351	20040719
PRAI	US 2000-208778P	P	20000601		
	US 2001-872347	B1	20010601		
	WO 2001-US17895	W	20010601		

AB Methods and compns. for producing a neurosalutary effect in a subject, such as modulating neuronal survival and/or regeneration in a subject, are provided. The present invention provides methods and compns. for producing a neurosalutary effect in a subject with a neurol. condition; such effects include promoting neuronal survival, axonal outgrowth, neuronal regeneration or normalized neurol. function in a subject. Pharmaceutical and packaged formulations are also provided.

L19 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:66625 CAPLUS

DN 130:306436

TI Tacrolimus (FK506) increases neuronal expression of GAP-43 and improves functional recovery after spinal cord injury in rats

AU Madsen, Joseph R.; MacDonald, Paul; Irwin, Nina; Goldberg, David E.; Yao, Gui-Lan; Meiri, Karina F.; Rimm, Ilonna J.; Stieg, Philip E.; Benowitz, Larry I.

CS Department of Neurosurgery, Children's Hospital, Boston, MA, 02115, USA

SO Experimental Neurology (1998), 154(2), 673-683

CODEN: EXNEAC; ISSN: 0014-4886

PB Academic Press

DT Journal

LA English

AB Tacrolimus (FK506), a widely used immunosuppressant drug, has neurite-promoting activity in cultured PC12 cells and peripheral neurons. The present study investigated whether tacrolimus affects the expression of the neuronal growth-associated protein, GAP-43, as well as functional recovery after photothrombotic spinal cord injury in the rat. In injured animals receiving tacrolimus, the number of neurons expressing GAP-43 mRNA and protein approx. doubled compared to that in injured animals receiving vehicle alone. This increase in GAP-43-pos. cells was paralleled by a significant improvement in neurol. function evaluated by open-field and inclined plane tests. Another FKBP-12 ligand (V-10,367) had similar effects on GAP-43 expression and functional outcome, indicating that the observed effects of tacrolimus do not involve inhibition of the phosphatase calcineurin. Thus, tacrolimus, a drug which is already approved for use in humans, as well as other FKBP-12 ligands which do not inhibit calcineurin, could potentially enhance functional outcome after

CNS injury in humans. (c) 1998 Academic Press.
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis hist

(FILE 'HOME' ENTERED AT 15:23:35 ON 02 NOV 2007)

FILE 'APOLLIT, MEDLINE, BIOSIS, EMBASE, BABS, CAPLUS, CBNB, CIN,
COMPENDEX, DISSABS, EMA, IFIPAT, NTIS, PASCAL, PROMT, RAPRA, SCISEARCH,
TEXTILETECH, USPATFULL, USPATOLD, USPAT2, WPIFV, WPINDEX, WSCA,
WTEXTILES' ENTERED AT 15:26:19 ON 02 NOV 2007

L1 192059 S NEUROLOGICAL AND DISORDER
L2 3665 S L1 AND (MANNOSE OR GULOSE OR GLUCOSE-6-PHOSPHATE)
L3 1090 S L2 AND (CAMP AND MODULATOR)
L4 11 S L3 AND ONCOMODULIN
L5 1062 S L3 AND (STROKE OR ANEURISM OR SPINAL OR PARKINSON OR SCLEROS
L6 832 S L5 AND MACROPHAGE
L7 832 S L6 AND FACTOR
L8 661 S L7 AND TGF
L9 620 S L8 AND ALZHEIMER
L10 10 S L9 AND ONCOMODULIN
L11 619 S L9 AND NEURON?
L12 408 S L8 AND GLAUCOMA
L13 368 S L12 AND INTRAOCULAR
L14 367 S L13 AND INJECT?
L15 6805 S L1 AND RETINA?
L16 358 S L14 AND RETINA?
L17 5 S L10 AND MACULAR

FILE 'CAPLUS' ENTERED AT 15:43:13 ON 02 NOV 2007

L18 69 S BENOWITZ LARRY I?/AU
L19 5 S L18 AND NEUROLOGICAL

=> s l1 and mannose

41511 MANNOSE
233 MANNOSES
41562 MANNOSE
(MANNOSE OR MANNOSES)

L20 24 L1 AND MANNOSE

=> dis l20 1-24 bib abs

L20 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2007:201705 CAPLUS
DN 146:267946
TI Gene disruptions in murine genes for characterization of their functions
and the functions of their human orthologs
IN Byers-Horner, Allison Anne; Combs, Katherin; Culbertson, Ling Ling;
Delmas-Mata, Juan; Desauvage, Frederic; Fan, Liangfen; Frantz, Gretchen;
Green, Leslie Jane; Massey, Erin Marie; McLain, Dina Rebecca; Montgomery,
Chuck; Payne, Bobby Joe; Peale, Franklin, Jr.; Phillips, Heidi; Rohrer,
Michelle; Shi, Zheng-Zheng; Sparks, Mary Jean; Stala, Joy; Tang, Tracy
Tzu-Ling; Vogel, Peter; Wang, Ching-Yun; Willis-Sevaux, Tracy Ellen;
Xiong, Wen
PA Genentech, Inc., USA; Lexicon Genetics Incorporated
SO PCT Int. Appl., 591pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2007021423 A2 20070222 WO 2006-US27777 20060718
WO 2007021423 A3 20070628

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,
SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2005-708312P P 20050815

AB The present invention relates to transgenic animals, as well as compns.
and methods relating to the characterization of gene function.
Specifically, the present invention provides transgenic mice comprising
disruptions in 53 genes, thereby identifying the phenotyping functions of
these mouse genes and their human orthologs. Such in vivo studies and
characterizations may provide valuable identification and discovery of
therapeutics and/or treatments useful in the prevention, amelioration or
correction of diseases or dysfunctions associated with gene disruptions such
as neurol. disorders; cardiovascular, endothelial or
angiogenic disorders; eye abnormalities; immunol.
disorders; oncol. disorders; bone metabolic
abnormalities or disorders; lipid metabolic disorders;
or developmental abnormalities.

L20 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1312589 CAPLUS

DN 146:56558

TI Identification of novel genes and proteins, gene disruption in transgenic
animals, and uses in drug screening and treating human disorders

IN Byers-Horner, Allison Anne; Combs, Katherin; Culbertson, Ling Ling;
Desauvage, Frederic; Ding, Zhiyong; Edwards, Joel; Girgis, Rosemary;
Junge, Harald; Junutula, Jagath Reddy; Massey, Erin Marie; Mclain, Dina
Rebecca; Montgomery, Chuck; Payne, Bobby Joe; Phillips, Heidi; Qian, Ni
Nancy; Rangel, Carolina; Shi, Zheng-Zheng; Sparks, Mary Jean; Stala, Joy;
Vogel, Peter; Willis-Sevaux, Tracy Ellen; Ye, Weilan

PA Genentech, Inc., USA; Lexicon Genetics Incorporated

SO PCT Int. Appl., 746pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006132788	A2	20061214	WO 2006-US19651	20060518
	WO 2006132788	A3	20070726		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2005-687900P P 20050606

US 2006-780262P P 20060307

AB Seventy-one novel proteins are identified by extracellular domain homol. screening and isolation of cDNA clones from human tissues by amylase screening and signal algorithm anal. Biol. functions are identified by disruptions in the genes encoding the proteins, tissue expression profiling, and microarray anal. in cancerous tissues. Such in vivo studies and characterizations may provide valuable identification and discovery of therapeutics and/or treatments useful in the prevention, amelioration or correction of diseases or dysfunctions associated with gene disruptions such as neurol. disorders; cardiovascular, endothelial or angiogenic disorders; eye abnormalities; immunol. disorders; oncol. disorders; bone metabolic abnormalities or disorders; lipid metabolic disorders; or developmental abnormalities.

L20 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:764397 CAPLUS

DN 145:267441

TI Targeted disruption of the mouse phosphomannomutase 2 gene causes early embryonic lethality

AU Thiel, Christian; Luebke, Torben; Matthijs, Gert; von Figura, Kurt; Koerner, Christian

CS Universitaetskinderklinik Heidelberg, Abteilung I, Friedrich Karls Universitaet Heidelberg, Heidelberg, 69120, Germany

SO Molecular and Cellular Biology (2006), 26(15), 5615-5620

CODEN: MCEBD4; ISSN: 0270-7306

PB American Society for Microbiology

DT Journal

LA English

AB Mutations in the cytosolic enzyme phosphomannomutase 2 (PMM2), which catalyzes the conversion of mannose-6-phosphate to mannose-1-phosphate, cause the most common form of congenital disorders of glycosylation, termed CDG-Ia. It is an inherited multi-systemic disease with severe neurol. impairment. To study the pathophysiol. of CDG-Ia and to investigate possible therapeutic approaches, we generated a mouse model for CDG-Ia by targeted disruption of the Pmm2 gene. Heterozygous mutant mice appeared normal in development, gross anatomy, and fertility. In contrast, embryos homozygous for the Pmm2-null allele were recovered in embryonic development at days 2.5 to 3.5. These results indicate that Pmm2 is essential for early development of mice. Mating expts. of heterozygous mice with wild-type mice could further show that transmission of the female Pmm2-null allele is impaired.

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:555308 CAPLUS

DN 143:169025

TI Over-expression of human lysosomal α -mannosidase in mouse embryonic stem cells

AU Robinson, A. J.; Crawley, A. C.; Hopwood, J. J.

CS Lysosomal Diseases Research Unit, Department of Genetic Medicine, Women's and Children's Hospital, North Adelaide, 5006, Australia

SO Molecular Genetics and Metabolism (2005), 85(3), 203-212

CODEN: MGMEFF; ISSN: 1096-7192

PB Elsevier

DT Journal

LA English

AB α -Mannosidosis is a lysosomal storage disorder characterized by the lysosomal accumulation of mannose-containing oligosaccharides and a range of pathol. consequences, caused by a deficiency of the lysosomal enzyme α -mannosidase. One of the major features of α -mannosidosis is progressive neurol. decline, for which there is no safe and effective treatment. Implantation of stem

cells into the central nervous system has been proposed as a potential therapy for these disorders. We report the construction and characterization of mouse embryonic stem cell lines for the sustained over-expression of recombinant human lysosomal α -mannosidase (rh α M). Two vectors (involving recombinant human α -mannosidase expression driven by either the chicken β -actin promoter/CMV enhancer or by the elongation factor 1- α promoter) were constructed and used to transfect mouse D3 embryonic stem cells. Selected clonal cell lines were isolated and tested to evaluate their expression of recombinant human α -mannosidase. Stem cell clones transfected with the chicken β -actin promoter/CMV enhancer maintained rh α M expression levels throughout differentiation. This expression was not markedly elevated above background. In contrast, the vector incorporating the elongation factor 1- α promoter facilitated substantial over-expression of α -mannosidase when analyzed out to 21 days of differentiation in stably transfected cell lines. The highest expressing cell line was found to qual. retain a similar differentiation potential to untransfected cells, and to secrete α -mannosidase that could mediate a reduction in the level of oligosaccharides stored by human α -mannosidosis skin fibroblasts. These results suggest potential for the use of this cell line for investigation of a stem cell therapy approach to treat α -mannosidosis.

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:379205 CAPLUS

DN 143:76224

TI Analysis of Glycosylation in CDG-Ia Fibroblasts by Fluorophore-assisted Carbohydrate Electrophoresis: implications for extracellular glucose and intracellular mannose 6-phosphate

AU Gao, Ningguo; Shang, Jie; Lehrman, Mark A.

CS Department of Pharmacology, University of Texas-Southwestern Medical Center, Dallas, TX, 75390, USA

SO Journal of Biological Chemistry (2005), 280(18), 17901-17909

CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

AB Phosphomannomutase (PMM) deficiency causes congenital disorder of glycosylation (CDG)-Ia, a broad spectrum disorder with developmental and neurol. abnormalities. PMM converts mannose 6-phosphate (M6P) to mannose-1-phosphate, a precursor of GDP-mannose used to make Glc3Man9GlcNAc2-P-P-dolichol (lipid-linked oligosaccharide; LLO). LLO, in turn, is the donor substrate of oligosaccharyltransferase for protein N-linked glycosylation. Hepatically produced N-linked glycoproteins in CDG-Ia blood are hypoglycosylated. Upon labeling with [3H]mannose, CDG-Ia fibroblasts have been widely reported to accumulate [3H]LLO intermediates. Since these are thought to be poor oligosaccharyltransferase substrates, LLO intermediate accumulation has been the prevailing explanation for hypoglycosylation in patients. However, this is discordant with sporadic reports of specific glycoproteins (detected with antibodies) from CDG-Ia fibroblasts being fully glycosylated. Here, fluorophore-assisted carbohydrate electrophoresis (FACE, a nonradioactive technique) was used to analyze steady-state LLO compns. in CDG-Ia fibroblasts. FACE revealed that low glucose conditions accounted for previous observations of accumulated [3H]LLO intermediates. Addnl. FACE expts. demonstrated abundant Glc3Man9GlcNAc2-P-P-dolichol, without hypoglycosylation, CDG-Ia fibroblasts grown with physiol. glucose. This suggested a "missing link" to explain hypoglycosylation in CDG-Ia patients. Because of the possibility of its accumulation, the effects of M6P on glycosylation were explored in vitro. Surprisingly, M6P was a specific activator for cleavage of Glc3Man9GlcNAc2-P-P-dolichol. This led to futile cycling the

LLO pathway, exacerbated by GDP-mannose/PMM deficiency. The possibilities that M6P may accumulate in hepatocytes and that M6P-stimulated LLO cleavage may account for both hypoglycosylation and the clin. failure of dietary mannose therapy with CDG-Ia patients are discussed.

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:128705 CAPLUS

DN 142:328763

TI Gene therapy of metachromatic leukodystrophy

AU Matzner, Ulrich; Gieselmann, Volkmar

CS Institut fuer Physiologische Chemie, Rheinische Friedrich-Wilhelms-Universitaet, Bonn, D-53115, Germany

SO Expert Opinion on Biological Therapy (2005), 5(1), 55-65
CODEN: EOBT2; ISSN: 1471-2598

PB Ashley Publications Ltd.

DT Journal; General Review

LA English

AB A review. Metachromatic leukodystrophy (MLD) is a lysosomal storage disease that is caused by a deficiency of arylsulfatase A (ASA). The deficiency results in the intralysosomal accumulation of the acidic sphingolipid 3-O-sulfogalactosylceramide (sulfatide). Patients suffer from progressive demyelination and die from multiple neurol. deficits. Curative treatment is not available. ASA bears mannose 6-phosphate residues which function as recognition markers in endosome/lysosome-specific targeting pathways. The endocytic targeting route can be exploited to deliver exogenous ASA to the lysosomes of ASA-deficient cells. ASA knockout mice, which develop a disorder related to MLD, have therefore been treated by ex vivo and in vivo gene therapy. Following transplantation of bone marrow cells overexpressing ASA from a retroviral vector, donor-type cells secrete ASA, which is endocytosed by recipient cells. The enzyme transfer results in the metabolic cross-correction of recipient cells and the improvement of biochem., histol. and clin. parameters. For the transfer of the ASA cDNA to non-dividing cells, adenovirus, adenoassocd. virus and lentivirus vectors have been constructed. Such vectors might be particularly advantageous for direct ASA gene delivery to the brain, which is the main site of disease in MLD.

RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:974900 CAPLUS

DN 142:275867

TI Purification and characterization of recombinant murine sulfamidase

AU Gliddon, B. L.; Yogalingam, G.; Hopwood, J. J.

CS Department of Genetic Medicine, Lysosomal Diseases Research Unit, Women's and Children's Hospital, North Adelaide, 5006, Australia

SO Molecular Genetics and Metabolism (2004), 83(3), 239-245
CODEN: MGMEFF; ISSN: 1096-7192

PB Elsevier

DT Journal

LA English

AB Mucopolysaccharidosis type IIIA (MPS IIIA) is a lysosomal storage disorder caused by a deficiency in the lysosomal enzyme sulfamidase, which is required for the degradation of heparan sulfate. The disease is characterized by neurol. dysfunction but relatively mild somatic manifestations. A naturally occurring mouse model to MPS IIIA exhibits a similar disease progression to that observed in patients. Disease in the mice results from a base substitution at codon 31 in the sulfamidase gene, altering an aspartic acid to an asparagine (D31N). This aspartic 31 is involved in binding of the divalent metal ion needed for

catalytic function, and as such reduces the specific activity of the enzyme to about 3% of that of wild-type. The mutant protein has decreased stability and shows increased degradation over a 24 h chase period when compared to wild-type mouse sulfamidase. Mouse sulfamidase that was purified using a two-step ion exchange procedure was shown to have similar kinetic properties to that of purified human sulfamidase. Recombinant murine sulfamidase was able to correct the storage phenotype of MPS IIIA fibroblasts after endocytosis via the mannose-6-phosphate receptor.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:452933 CAPLUS

DN 141:37230

TI Nuclear receptors as diagnostic and risk markers for disease and as targets for therapy

IN Gaitanaris, George A.; Bergmann, John E.; Gracero, Alexander; Hohmann, John; Li, Fusheng; Madisen, Linda; Mcilwain, Kellie L.; Pavlova, Maria N.; Vassilatis, Demetri; Zeng, Hongkui

PA Nura, Inc., USA

SO PCT Int. Appl., 508 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004045369	A2	20040603	WO 2003-US36229	20031112
	WO 2004045369	A3	20070301		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2003295500	A1	20040615	AU 2003-295500	20031112
PRAI	US 2002-426305P	P	20021114		
	WO 2003-US36229	W	20031112		

AB Methods of using nuclear receptors as diagnostic markers for disease and for increased risk of disease and in the development of therapeutics for treatment of such diseases are described. The proteins and the genes encoding them may be used in diagnosis. Transgenic animals carrying the human genes for these receptors may be used in screening for effectors. The invention also provides methods for identifying compds. (e.g., agonists or antagonists) using the nuclear receptor polypeptides and polynucleotides of the invention, and for treating conditions associated with nuclear receptor dysfunction with the nuclear receptor polypeptides, polynucleotides, or identified compds. The invention also provides diagnostic assays for detecting diseases or disorders associated with inappropriate nuclear receptor activity or levels.

L20 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:290472 CAPLUS

DN 140:264527

TI Methods and compositions for treatment of neurological disorder

IN Benowitz, Larry I.

PA Children's Medical Center Corporation, USA

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004028468	A2	20040408	WO 2003-US30466	20030925
	WO 2004028468	A3	20041021		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2499170	A1	20040408	CA 2003-2499170	20030925
	AU 2003272728	A1	20040419	AU 2003-272728	20030925
	EP 1542702	A2	20050622	EP 2003-754929	20030925
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	CN 1703227	A	20051130	CN 2003-825428	20030925
	JP 2006503847	T	20060202	JP 2004-540004	20030925
	US 2005256059	A1	20051117	US 2005-528685	20050718
PRAI	US 2002-414063P	P	20020927		
	WO 2003-US30466	W	20030925		

AB The invention provides methods and compns. for producing a neurosalutary effect in a subject useful for the treatment of neurol. disorders, including retinal and optic nerve damage, in a subject in need thereof. The method includes administration to a subject a therapeutically effective amount of a hexose, such as mannose.

L20 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:50529 CAPLUS

DN 140:233949

TI In vitro characterization of genetically modified embryonic stem cells as a therapy for murine mucopolysaccharidosis type IIIA

AU Lau, Adeline A.; Hemsley, Kim M.; Meedeniya, Adrian; Hopwood, John J.

CS Department of Genetic Medicine, Lysosomal Diseases Research Unit, Women's and Children's Hospital, North Adelaide, 5006, Australia

SO Molecular Genetics and Metabolism (2004), 81(2), 86-95

CODEN: MGMEFF; ISSN: 1096-7192

PB Elsevier Science

DT Journal

LA English

AB The mucopolysaccharidoses (MPS) are lysosomal storage disorders resulting from the impaired catabolism of glycosaminoglycans (GAG). MPS type IIIA patients have dysfunctional sulfamidase enzyme leading to lysosomal storage of the GAG heparan sulfate, severe neurol. symptoms including regression in learning, behavioral abnormalities, and premature death. The authors have engineered mouse D3 embryonic stem (ES) cells to over-express recombinant human sulfamidase. Human sulfamidase was correctly folded and secreted 2 h post-labeling as determined by immunopptn. and SDS-PAGE anal. of transfected ES cells. Secreted human sulfamidase present in conditioned ES cell media was able to be taken up via mannose-6-phosphate-mediated endocytosis and restored sulfamidase enzyme activity in human MPS IIIA fibroblast cell lines. ES cells underwent directed differentiation to neural precursor populations and were capable of sustained human sulfamidase over-expression at all stages. Addnl., transfected and control cells were proliferative (Ki67+) and expressed several neural markers (nestin, MAP-2, and NF160) as determined by immunofluorescence. These findings suggest the possibility of ES

cell-based therapy for the treatment of neurol. pathol. of MPS
IIIA.

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:18723 CAPLUS
DN 140:71049
TI Novel compositions and methods for treating neurological
disorders and associated gastrointestinal conditions
IN Brudnak, Mark A.
PA MAK Wood, Inc., USA
SO U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 2004005304	A1	20040108	US 2002-191385	20020708
PRAI	US 2002-191385		20020708		

AB The present invention provides therapeutic compns. and methods for
treating to neurol. disorders and associated
gastrointestinal conditions using enhancer mols. These enhancer mols.
comprise therapeutically effective amts. of metals, amino acids,
polypeptides, saccharides, probiotics, and combinations thereof to enhance
expression of genes, and/or enzymic activity of gastrointestinal proteins.

L20 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:806989 CAPLUS
DN 138:331147
TI Uptake of recombinant iduronate-2-sulfatase into neuronal and glial cells
in vitro
AU Daniele, A.; Tomanin, R.; Villani, G. R. D.; Zacchello, F.; Scarpa, M.; Di
Natale, P.
CS Medical School, Department of Biochemistry and Medical Biotechnologies,
University of Naples Federico II, Naples, Italy
SO Biochimica et Biophysica Acta, Molecular Basis of Disease (2002), 1588(3),
203-209
CODEN: BBADEX; ISSN: 0925-4439
PB Elsevier B.V.
DT Journal
LA English

AB Mucopolysaccharidosis type II (MPS II, Hunter syndrome) is a congenital
storage disorder resulting from mutations on the
iduronate-2-sulfatase (IDS) gene. The disease shows variable clin.
phenotypes from severe to mild with progressive neurol.
dysfunction. The therapeutic options for treatment of MPS II are limited
and currently no specific therapies are available; the problem is further
compounded by difficulties in delivering therapeutic agents to the central
nervous system (CNS). In this work, as a potential treatment for this
disease, the transfer of the recombinant IDS enzyme into brain cells has
been studied in vitro. Two different approaches to obtain recombinant IDS
have been utilized: production of the recombinant enzyme by a transfected
human clone (Bosc 23 cells); production of the recombinant enzyme by
adenoviral transduction of neuronal (SK-N-BE) or glial (C6) cells. Our
data indicate that the transfected as well as the infected cells produce a
large amount of the IDS enzyme, which is efficiently endocytosed into
neuronal and glial cells through the mannose 6-phosphate (M6P)
receptor system. Somatic gene therapy appears therefore to be suitable to
correct IDS deficiency in brain cells.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:556871 CAPLUS

DN 137:245977

TI Truncated, inactive N-acetylglucosaminyltransferase III (GlcNAc-TIII) induces neurological and other traits absent in mice that lack GlcNAc-TIII

AU Bhattacharyya, Riddhi; Bhaumik, Mantu; Raju, T. Shantha; Stanley, Pamela
CS Department of Cell Biology, Albert Einstein College of Medicine, New York, NY, 10461, USA

SO Journal of Biological Chemistry (2002), 277(29), 26300-26309
CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

AB N-Acetylglucosaminyltransferase III (GlcNAc-TIII), the product of the Mgat3 gene, transfers the bisecting GlcNAc to the core mannose of complex N-glycans. The addition of this residue is regulated during development and has functional consequences for receptor signaling, cell adhesion, and tumor progression. Mice homozygous for a null mutation at the Mgat3 locus (Mgat3Δ) or for a targeted mutation in the Mgat3 gene (previously called Mgat3neo, but herein renamed Mgat3T37 because the allele generates inactive GlcNAc-TIII of .apprx.37 kDa) were found to exhibit retarded progression of liver tumors. Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of neutral N-glycans from kidneys revealed no significant differences, and both mutants showed the expected lack of N-glycan species with an addnl. GlcNAc. However, the two mutants differed in several biol. traits. Mgat3T37/T37 homozygotes in a mixed or 129SvJ background were retarded in growth rate and exhibited an altered leg clasp reflex, an altered gait, and defective nursing behavior. Pups abandoned by Mgat3T37/T37 mothers were rescued by wild-type foster mothers. None of these Mgat3T37/T37 traits were exhibited by Mgat3Δ/Δ mice or by heterozygous mice carrying the Mgat3T37 mutation. Similarly, no dominant-neg. effect was observed in Chinese hamster ovary cells expressing truncated GlcNAc-TIII in the presence of wild-type GlcNAc-TIII. However, compound heterozygotes carrying both the Mgat3T37 and Mgat3Δ mutations exhibited a marked leg clasp reflex, indicating that in the absence of wild-type GlcNAc-TIII, truncated GlcNAc-TIII causes this phenotype. The Mgat3 gene was expressed in brain at embryonic day 10.5 and thereafter and in neurons of adult cerebellum. The mutant Mgat3 gene was also highly expressed in Mgat3T37/T37 brain. This may be the basis of the unexpected neurol. phenotype induced by truncated, inactive GlcNAc-TIII in the mouse.

RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:713364 CAPLUS

DN 135:267271

TI Probucol-related thioketals and thioethers for inhibiting the expression of VCAM-1, preparation, and therapeutic use

IN Meng, Charles Q.; Hoong, Lee K.; Somers, Patricia K.

PA Atherogenics, Inc., USA

SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

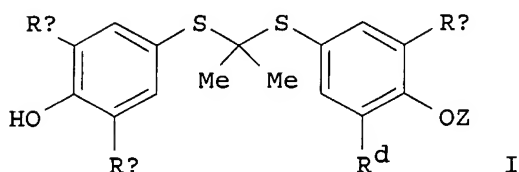
DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001070757	A2	20010927	WO 2001-US9049	20010321
	WO 2001070757	A3	20020314		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				

HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
 VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2403823 A1 20010927 CA 2001-2403823 20010321
 EP 1289944 A2 20030312 EP 2001-920617 20010321
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2003528109 T 20030924 JP 2001-568958 20010321
 AU 2001247651 B2 20070104 AU 2001-247651 20010321
 AU 2002300328 A1 20021219 AU 2002-300328 20020730
 PRAI US 2000-191046P P 20000321
 AU 1998-74851 A3 19980514
 WO 2001-US9049 W 20010321
 OS MARPAT 135:267271
 GI



AB Probucol-related thioketals and thioethers are provided that inhibit the expression of VCAM-1, and which can be used in the treatment of VCAM-1-mediated diseases, including inflammatory disorders, cardiovascular diseases, ocular diseases, autoimmune diseases, neurol. disorders, and cancer. Compds. of the invention include I [Ra-Rd = H, (un)substituted alkyl, (un)substituted aryl, etc.; Z = (un)substituted carbohydrate, (un)substituted alditol, (un)substituted C1-10 alkyl terminated by sulfonic acid, etc.]. The compds. also can be used to treat hyperlipidemia and/or hypercholesterolemia. Compound preparation is described.

L20 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2001:337959 CAPLUS
 DN 135:151146
 TI Functional Analysis of Novel Mutations in a Congenital Disorder of Glycosylation Ia Patient with Mixed Asian Ancestry
 AU Westphal, Vibeke; Enns, Gregory M.; McCracken, Marjorie F.; Freeze, Hudson H.
 CS The Burnham Institute, La Jolla, CA, 92037, USA
 SO Molecular Genetics and Metabolism (2001), 73(1), 71-76
 CODEN: MGMEFF; ISSN: 1096-7192
 PB Academic Press
 DT Journal
 LA English
 AB Congenital disorders of glycosylation (CDG) are caused by autosomal recessive mutations in genes affecting N-glycan biosynthesis. Mutations in the PMM2 gene, which encodes the enzyme phosphomannomutase (mannose 6-phosphate ↔ mannose 1-phosphate), give rise to the most common form: CDG-Ia. These patients typically present with dysmorphic features and neurol. abnormalities, cerebellar hypoplasia, ataxia, hypotonia, and coagulopathy, in addition to feeding problems. However, the clin. symptoms vary greatly. The great majority of known CDG-Ia patients are of European descent where the most common mutant alleles originated. This ethnic bias can also be explained by lack

of global awareness of the disorder. Here the authors report an Asian patient with prominent systemic features that the authors diagnosed with CDG-Ia resulting from two new mutations in the PMM2 gene (310C→G resulting in L104V and an intronic mutation IVS1-1G→A). The latter mutation seems to result in lower mRNA levels, and the L104V has been functionally analyzed in a yeast expression system together with known mutations. The Filipino and Cambodian origins of the parents show that CDG-Ia mutations occur in these ethnic groups as well as in Caucasians. (c) 2001 Academic Press.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:629354 CAPLUS

DN 132:149756

TI Glycosylation defects corrected by the changes in GDPmannose level

AU Kruszkowska, Joanna; Janik, Anna; Lenart, Urszula; Palamarczyk, Grazyna

CS Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw, 02-106, Pol.

SO Acta Biochimica Polonica (1999), 46(2), 315-324

CODEN: ABPLAF; ISSN: 0001-527X

PB Polish Biochemical Society

DT Journal; General Review

LA English

AB A review with 40 refs. GDPMan is a key substrate in glycoprotein formation. This is especially true for lower eukaryotes where, in addition to the

involvement in N-glycan biosynthesis and GPI-anchor formation, GDPMan takes part in the process which is unique for yeast and fungi i.e. O-mannosylation. Several lines of evidence have been presented that the level of GDPMan affects the process occurring in the Golgi compartment i.e. the elongation of outer mannose chain of glycoproteins in *Saccharomyces cerevisiae*. Results from the authors' laboratory indicate that the availability of GDPMan affects also the early steps of glycoprotein formation ascribed to the endoplasmic reticulum, i.e. assembly of the dolichol-linked oligosaccharide as well as mannosyl-phosphodolichol (MPD) formation. The biochem. basis of carbohydrate deficient glycoprotein syndrome, a severe neurol. disorder related to the GDPMan deficiency, is also discussed.

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:34996 CAPLUS

DN 130:94486

TI Recombinant effector cells expressing chimeric signalling systems and their use in disease treatment

IN Finney, Helene Margaret; Lawson, Alastair David Griffiths; Weir, Andrew Neil Charles

PA Celltech Therapeutics Limited, UK

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9900494	A2	19990107	WO 1998-GB1842	19980624
	WO 9900494	A3	19990325		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9881210 A 19990119 AU 1998-81210 19980624

EP 1002073 A2 20000524 EP 1998-930934 19980624

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

JP 2002511757 T 20020416 JP 1999-505370 19980624

US 2003060444 A1 20030327 US 2002-280596 20021024

PRAI GB 1997-13473 A 19970625

WO 1998-GB1842 W 19980624

US 2000-446529 B1 20000519

AB A cell activation process is described in which an effector cell is transformed with DNA coding for a chimeric receptor containing two or more different cytoplasmic signalling components. At least one of the cytoplasmic signalling components is derived from all or part of a tetraspan-transmembrane protein, CD43, CD6, a mannose, IL-7, IL-12 or complement receptor, an integrin-associated protein, or a γ -chain associated with a cytokine receptor. The activated cell may be of use in medicine for example in the treatment of diseases such as cancer. Thus, recombinant Jurkat E6.1 cells producing a chimeric receptor consisting of an anti-CD33 single-chain Fv linked via a spacer containing IgG1 and CD28 domains to the intracellular domain of Fc ϵ RI, were stimulated to produce interleukin-12 in the presence of CD33-pos. cells.

L20 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:233726 CAPLUS

DN 129:15098

TI Carbohydrate-deficient glycoprotein syndrome type Ib: phosphomannose isomerase deficiency and mannose therapy

AU Niehues, Ralf; Hasilik, Martin; Alton, Gordon; Korner, Christian; Schiebe-Sukumar, Marika; Koch, Hans Georg; Zimmer, Klaus-Peter; Wu, Rongrong; Harms, Erik; Reiter, Karl; Von Figura, Kurt; Freeze, Hudson H.; Harms, Hinrich Karsten; Marquardt, Thorsten

CS Klinik und Poliklinik fur Kinderheilkunde, Munster, 48149, Germany

SO Journal of Clinical Investigation (1998), 101(7), 1414-1420

CODEN: JCINAO; ISSN: 0021-9738

PB Rockefeller University Press

DT Journal

LA English

AB Phosphomannose isomerase (PMI) deficiency is the cause of a new type of carbohydrate-deficient glycoprotein syndrome (CDGS). The disorder is caused by mutations in the PMI1 gene. The clin. phenotype is characterized by protein-losing enteropathy, while neurol. manifestations prevailing in other types of CDGS are absent. Using standard diagnostic procedures, the disorder is indistinguishable from CDGS type Ia (phosphomannomutase deficiency). Daily oral mannose administration is a successful therapy for this new type of CDG syndrome classified as CDGS type Ib.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:51329 CAPLUS

DN 128:214781

TI Recombinant human sulfamidase: expression, amplification, purification and characterization

AU Bielicki, Julie; Hopwood, John J.; Melville, Elizabeth L.; Anson, Donald S.

CS Lysosomal Diseases Research Unit, Department of Chemical Pathology, Women's and Children's Hospital, North Adelaide, 5006, Australia

SO Biochemical Journal (1998), 329(1), 145-150

CODEN: BIJOAK; ISSN: 0264-6021

PB Portland Press Ltd.

DT Journal
LA English
AB Mucopolysaccharidosis type IIIA (MPS IIIA, Sanfilippo A syndrome) is a lysosomal storage disease that causes a profound neurol. deterioration. The disorder is caused by a deficiency of the lysosomal enzyme sulfamidase which is a requisite for the degradation of heparan sulfate. To facilitate the development of enzyme-replacement strategies for MPS IIIA patients, the authors have constructed a high-level expression system for recombinant human sulfamidase in Chinese hamster ovary (CHO) cells. An expression construct containing a methotrexate-resistant dihydrofolate reductase (DHFR) gene allowed amplification of expression levels from less than 1 mg of sulfamidase per L of culture medium to approx. 15 mg/l. Unlike many cell lines made by gene amplification in DHFR-deficient CHO cells, and utilizing the normal DHFR gene, these cell lines appeared to be stable in the absence of selective pressure. Recombinant human sulfamidase was purified from unamplified and amplified cell lines. The native enzyme was found to be a dimer of 115 kDa. Denaturing and reducing SDS-PAGE revealed a subunit size of 62 kDa. Kinetic anal. demonstrated that the recombinant enzyme had broadly similar kinetic characteristics to sulfamidase purified from liver. Recombinant human sulfamidase was able to correct the storage phenotype of MPS IIIA fibroblasts after endocytosis via the mannose-6-phosphate receptor.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:300721 CAPLUS

DN 127:651

TI In vitro correction of iduronate-2-sulfatase deficiency by adenovirus-mediated gene transfer

AU Di Francesco, C.; Cracco, C.; Tomanin, R.; Picci, L.; Ventura, L.; Zacchello, F.; Di Natale, P.; Anson, D. S.; Hopwood, J. J.; Graham, F. L.; Scarpa, M.

CS Dep. Pediatrics and Center Biotechnology CRIBI, Univ. Padova, Italy

SO Gene Therapy (1997), 4(5), 442-448

CODEN: GETHEC; ISSN: 0969-7128

PB Stockton

DT Journal

LA English

AB Hunter syndrome is a lethal lysosomal storage disorder caused by the deficiency of iduronate-2-sulfatase and characterized by severe skeletal and neurol. symptoms. Only symptomatic treatments are available and, although bone marrow transplantation has been suggested, no encouraging results have been obtained so far. Therefore, gene therapy might be a route to be pursued for treatment of the disease. In this respect, one major goal to achieve is the generation of an overexpressing vector able to correct, in particular, central nervous system (CNS) cells. Adenoviruses have been shown to infect CNS cells efficiently with minor or even absent immunol. response. We describe the generation of a replication-defective adenoviral vector, AdRSVIDS, which is able to express in vitro high levels of iduronate-2-sulfatase. After infection, accumulation of mucopolysaccharides in treated Hunter cells was normalized. Furthermore, endocytosis of the transduced IDS did occur via the mannose-6-phosphate (M6P) receptor. Since no animal model for the disease is available, we developed a system based on the generation of derma-equivalent which enables us to verify the expression of high levels of sulfatase up to 30 days after infection.

RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:391236 CAPLUS

DN 125:80131

TI Lysosomal targeting of palmitoyl-protein thioesterase
 AU Verkruyse, Linda A.; Hofmann, Sandra L.
 CS Department Internal Medicine, University Texas Southwestern Medical
 Center, Dallas, TX, 75235-8593, USA
 SO Journal of Biological Chemistry (1996), 271(26), 15831-15836
 CODEN: JBCHA3; ISSN: 0021-9258
 PB American Society for Biochemistry and Molecular Biology
 DT Journal
 LA English
 AB Palmitoyl-protein thioesterase is a newly described long chain fatty-acid
 hydrolase that removes fatty acyl groups from modified cysteines in
 proteins. We have recently identified palmitoyl-protein thioesterase as
 the defective enzyme in the recessive hereditary neurol.
 degenerative disorder infantile neuronal ceroid lipofuscinosis
 (Vesa, J., Hellsten, E., Verkruyse, L. A., Camp, L. A., Rapola, J.,
 Santavuori, P., Hofmann, S. L., and Peltonen, L. (1995) Nature 376,
 584-587). A defect in a lysosomal enzyme had been postulated for the
 disease, but until recently, the relevant defective lysosomal enzyme had
 not been identified. In this paper, we present evidence for the lysosomal
 localization of palmitoyl-protein thioesterase. We show that COS cells
 take up exogenously supplied palmitoyl-protein thioesterase
 intracellularly and that the cellular uptake is blocked by mannose
 6-phosphate, a hallmark of lysosomal enzyme trafficking. The enzyme
 contains endoglycosidase H-sensitive oligosaccharides that contain
 phosphate groups. Furthermore, palmitoyl-protein thioesterase cosediments
 with lysosomal enzyme markers by Percoll d. gradient centrifugation.
 Interestingly, the pH optimum for the enzyme is in the neutral range, a
 property shared by two other lysosomal enzymes that remove
 post-translational protein modifications. These findings suggest that
 palmitoyl-protein thioesterase is a lysosomal enzyme and that infantile
 neuronal ceroid lipofuscinosis is properly classified as a lysosomal
 storage disorder.

L20 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1995:818365 CAPLUS
 DN 123:225192
 TI Abnormal synthesis of dolichol-linked oligosaccharides in
 carbohydrate-deficient glycoprotein syndrome
 AU Krasnewich, Donna M.; Holt, Gordon D.; Brantly, Mark; Skovby, Flemming;
 Redwine, Jeff; Gahl, William A.
 CS Section Human Biochemical Genetics, Human Genetics Branch, NICHD, National
 Institutes Health, Bedford, MA, USA
 SO Glycobiology (1995), 5(5), 503-10
 CODEN: GLYCE3; ISSN: 0959-6658
 PB Oxford University Press
 DT Journal
 LA English
 AB Carbohydrate-deficient glycoprotein syndrome (CDGS) is a rare metabolic
 disorder presenting in infancy with severe neurol.
 involvement and variable multisystemic abnormalities. Diagnosis relies
 upon the detection of abnormal serum glycoprotein isoforms on isoelec.
 focusing (IEF) gels. Carbohydrate structural analyses were performed on
 the N-linked oligosaccharides on serum α 1-antitrypsin (α -1AT)
 from two Danish children with classical type I CDGS. Following
 preparative gel electrophoresis of α -1AT isoforms, oligosaccharide
 change and monosaccharide composition anal. revealed increased glycosylation
 heterogeneity in CDGS compared with normal α -1AT. CDGS α -1AT
 isoforms bore N-glycans comigrating with monosialylated stds., while
 normal α -1AT oligosaccharides comigrated with both mono-and
 disialylated stds. While the monosaccharide contents of normal
 α -1AT isoforms were relatively uniform, those of CDGS α -1AT
 isoforms varied widely, and many were relatively mannose
 enriched. The mannose-rich oligosaccharides of CDGS α -1AT
 were not typical oligomannose structures since they were not released by

endo- β -N-acetylglucosaminidase H (endo H) digestion. Metabolic labeling of CDGS fibroblasts with [3H]mannose showed lower than normal intracellular total mannose, free mannose and phosphorylated mannose species, as well as diminished [3H]mannose incorporation into dolichol-linked and protein-linked oligosaccharides. In addition, the glycans liberated from CDGS dolichol-linked oligosaccharides were significantly truncated compared with those from normal fibroblasts. These data suggest that our type I CDGS patients produce abnormal N-linked oligosaccharides due to impaired biosynthesis of dolichol-oligosaccharide precursors.

L20 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:227367 CAPLUS

DN 114:227367

TI Immunoassay, lectin, and kit for the diagnosis of neurological demyelination disorders, especially multiple sclerosis

IN Zanetta, Jean Pierre; Warter, Jean Marie; Kuchler, Sabine; Vincendon, Guy

PA Centre National de la Recherche Scientifique, Fr.

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 416984	A1	19910313	EP 1990-402399	19900830
	EP 416984	B1	19930616		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FR 2651581	A1	19910308	FR 1989-11667	19890906
	WO 9103737	A1	19910321	WO 1990-FR638	19900830
	W: AU, FI, JP, NO				
	AU 9064214	A	19910408	AU 1990-64214	19900830
	AU 648516	B2	19940428		
	JP 05500858	T	19930218	JP 1990-513133	19900830
	JP 3032290	B2	20000410		
	AT 90791	T	19930715	AT 1990-402399	19900830
	ES 2057476	T3	19941016	ES 1990-402399	19900830
	US 5225352	A	19930706	US 1990-577884	19900905
	CA 2024731	A1	19910307	CA 1990-2024731	19900906
	NO 9200852	A	19920304	NO 1992-852	19920304
PRAI	FR 1989-11667	A	19890906		
	EP 1990-402399	A	19900830		
	WO 1990-FR638	A	19900830		

AB Neurol. demyelination disorders, especially multiple sclerosis (MS), are diagnosed by (1) contacting patient fluid (cerebrospinal fluid or blood) with an endogenous lectin having an affinity for glycans rich in mannose or their subunit glycoproteins, especially cerebellar soluble lectin (CSL) or its protein component;

and (2) detecting formed immunol. complex. A kit for diagnosing MS and neurol. demyelination disorders comprises a CSL-type lectin or subunit and solvents and agents necessary for the assay. Nitrocellulose filters containing transferred partially purified CSL from PAGE were incubated with cerebrospinal fluid samples and then labeled with goat anti-human IgG labeled with horseradish peroxidase or alkaline phosphatase. Colored bands were developed in 47/51 samples of patients clin. diagnosed with MS. The test had a specificity of 85% and a sensitivity of 93.5%.

L20 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1961:13849 CAPLUS

DN 55:13849

OREF 55:2781g-i,2782a

TI Determination of neuraminic (sialic) acid, glucose, and fructose in spinal fluid

AU Papadopoulos, Nicholas M.; Hess, Walter C.
CS Georgetown Univ., Washington, DC
SO Archives of Biochemistry and Biophysics (1960), 88, 167-71
CODEN: ABBIA4; ISSN: 0003-9861
DT Journal
LA Unavailable
AB

cf. CA 53, 9419a. The sialic acids (I) consisting of N-acetylneuraminic acid (II) and related compds. are estimated in spinal fluid by the color produced with Bial's reagent in a spectrophotometer. Fructose (III) also reacts, so III is estimated by its color reaction with resorcinol in HCl read spectrophotometrically. Glucose (IV) interferes to a lesser extent and is estimated by a peroxidase oxidation in presence of o-dianisidine. Curves indicate that the color reaction with the orcinol reagent decreases in the order II, III, and IV. By correcting for the III and IV, accurate values for I (as II) are determined. The optical d. is at a maximum at 570 mμ in all

3 cases. Free ribose and deoxyribose also give colors but are not found in spinal fluid. Galactose, fucose, mannose, glucosamine, inositol, and pyruvic and lactic acids gave no color in the concns. occurring in spinal fluid. II gave no color in the resorcinol test for III, but large amts. of IV might produce some color. The average of 10 detns. on normal spinal fluids gave values of IV 57, III 3.4, and I 1.8 mg. %. The range for I was 1.4-2.25 mg. %. In 10 cases of neurological disorders, the average values for free and bound (esterified) I in spinal fluid were 1.12 and 0.70 mg. %, resp. II was demonstrated (after hydrolysis) in these samples by paper chromatography. An ion-exchange method (Svennerholm, CA 53, 15172h) gave average I values about 12% less than the new method. 15 references.

=> s l1 and gulose

642 GULOSE
4 GULOSES
642 GULOSE
(GULOSE OR GULOSES)

L21 2 L1 AND GULOSE

=> dis k21 1-2 bib abs

'K21' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels
 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels

 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):end

=> dis l21 1-2 bib abs

L21 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:290472 CAPLUS
 DN 140:264527
 TI Methods and compositions for treatment of neurological disorder
 IN Benowitz, Larry I.
 PA Children's Medical Center Corporation, USA
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004028468	A2	20040408	WO 2003-US30466	20030925
	WO 2004028468	A3	20041021		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2499170 A1 20040408 CA 2003-2499170 20030925
 AU 2003272728 A1 20040419 AU 2003-272728 20030925
 EP 1542702 A2 20050622 EP 2003-754929 20030925

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

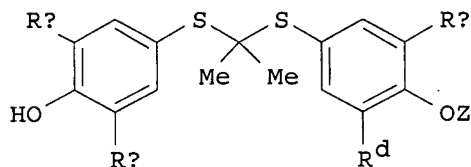
CN 1703227 A 20051130 CN 2003-825428 20030925
 JP 2006503847 T 20060202 JP 2004-540004 20030925
 US 2005256059 A1 20051117 US 2005-528685 20050718

PRAI US 2002-414063P P 20020927
 WO 2003-US30466 W 20030925

AB The invention provides methods and compns. for producing a neurosalutary
 effect in a subject useful for the treatment of neurol.
 disorders, including retinal and optic nerve damage, in a subject
 in need thereof. The method includes administration to a subject a
 therapeutically effective amount of a hexose, such as mannose.

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2001:713364 CAPLUS
 DN 135:267271
 TI Probucol-related thioketals and thioethers for inhibiting the expression
 of VCAM-1, preparation, and therapeutic use
 IN Meng, Charles Q.; Hoong, Lee K.; Somers, Patricia K.
 PA Atherogenics, Inc., USA
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001070757	A2	20010927	WO 2001-US9049	20010321
	WO 2001070757	A3	20020314		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2403823	A1	20010927	CA 2001-2403823	20010321
	EP 1289944	A2	20030312	EP 2001-920617	20010321
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2003528109	T	20030924	JP 2001-568958	20010321
	AU 2001247651	B2	20070104	AU 2001-247651	20010321
	AU 2002300328	A1	20021219	AU 2002-300328	20020730
PRAI	US 2000-191046P	P	20000321		
	AU 1998-74851	A3	19980514		
	WO 2001-US9049	W	20010321		
OS	MARPAT 135:267271				
GI					



AB Probucol-related thioketals and thioethers are provided that inhibit the expression of VCAM-1, and which can be used in the treatment of VCAM-1-mediated diseases, including inflammatory disorders, cardiovascular diseases, ocular diseases, autoimmune diseases, neurol. disorders, and cancer. Compds. of the invention include I [Ra-Rd = H, (un)substituted alkyl, (un)substituted aryl, etc.; Z = (un)substituted carbohydrate, (un)substituted alditol, (un)substituted C1-10 alkyl terminated by sulfonic acid, etc.]. The compds. also can be used to treat hyperlipidemia and/or hypercholesterolemia. Compound preparation is described.

=> s 11 and glucose-6-phosphate
434139 GLUCOSE
835 GLUCOSES
434318 GLUCOSE
(GLUCOSE OR GLUCOSES)
3981687 6
582010 PHOSPHATE
129741 PHOSPHATES
632078 PHOSPHATE
(PHOSPHATE OR PHOSPHATES)
28766 GLUCOSE-6-PHOSPHATE
(GLUCOSE(W) 6(W) PHOSPHATE)
L22 16 L1 AND GLUCOSE-6-PHOSPHATE

=> dis 122 1-16 bib abs

L22 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:524606 CAPLUS

DN 145:117320

TI Oxidative stress-mediated macromolecular damage and dwindle in antioxidant status in aged rat brain regions: Role of L-carnitine and α -lipoic acid

AU Muthuswamy, Anusuya Devi; Vedagiri, Kokilavani; Ganesan, Murali; Chinnakannu, Panneerselvam

CS Taramani Campus, Department of Medical Biochemistry, Dr. AL. Mudaliar Post Graduate Institute of Basic Medical Sciences, University of Madras, Chennai, 600 113, India

SO Clinica Chimica Acta (2006), 368(1-2), 84-92

CODEN: CCATAR; ISSN: 0009-8981

PB Elsevier Ltd.

DT Journal

LA English

AB Background: The free radical theory of aging has significant relevance in a number of age-related neurol. disorders. Too many free radicals create cellular pollution that shuts down energy levels. They have also been implicated in the loss of physiol. functioning associated with the aging of post mitotic cells such as the brain. The activities of enzymic antioxidative defenses decrease in rat brain may be possible causes of age-associated increase in oxidative damage to macromols. Methods: We determined whether DL- α -lipoic acid (100 mg/kg body weight/day), and -carnitine (300 mg/kg body weight/day) together when administered for 30 days declines the rate of oxidative stress-mediated macromol. damages such as lipid peroxidn. (LPO), protein carbonyl (PCO) and DNA protein cross-links in different anat. regions (cortex, striatum and hippocampus). The activities of antioxidant enzymes in programmed aging were evaluated in the cortex, striatum and hippocampus of young and aged rat brain regions. Results: Aged rats elicited a significant decline in the antioxidant status and increase in LPO, PCO and DNA protein cross-links as compared to young rats in all the 3 brain regions. The increase in LPO, PCO and DNA protein cross-links were (35.8%, 35.6%, 43.5%) in cortex, (32.5%, 40.3%, 29.8%) in striatum and (62.7%, 42.4%, 34.9%) in hippocampus, resp., in

aged rats as compared to young rats. Co-supplementation of carnitine and lipoic acid was found to be effective in reducing brain regional LPO, PCO and DNA protein cross-links and in increasing the activities of enzymic antioxidants in aged rats to near normalcy. Conclusion: The combination of -carnitine and lipoic acid overcame the oxidative stress induced rate of lipid peroxidn., protein carbonyl formation, accumulation of DNA protein cross-links and deficits in antioxidant enzyme activities in various brain regions of aged rats.

RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:290472 CAPLUS
DN 140:264527
TI Methods and compositions for treatment of neurological disorder
IN Benowitz, Larry I.
PA Children's Medical Center Corporation, USA
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004028468	A2	20040408	WO 2003-US30466	20030925
	WO 2004028468	A3	20041021		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2499170	A1	20040408	CA 2003-2499170	20030925
	AU 2003272728	A1	20040419	AU 2003-272728	20030925
	EP 1542702	A2	20050622	EP 2003-754929	20030925
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1703227	A	20051130	CN 2003-825428	20030925
	JP 2006503847	T	20060202	JP 2004-540004	20030925
	US 2005256059	A1	20051117	US 2005-528685	20050718
PRAI	US 2002-414063P	P	20020927		
	WO 2003-US30466	W	20030925		
AB	The invention provides methods and compns. for producing a neurosalutary effect in a subject useful for the treatment of neurol. disorders, including retinal and optic nerve damage, in a subject in need thereof. The method includes administration to a subject a therapeutically effective amount of a hexose, such as mannose.				

L22 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:101125 CAPLUS
DN 134:157573
TI Dithiolthione compounds for the treatment of neurological disorders and for memory enhancement
IN Prendergast, Patrick T.; Armstrong, Paul
PA Ire.
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001009118	A2	20010208	WO 2000-IB1146	20000728
	WO 2001009118	A3	20011122		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 2000064625	A	20010219	AU 2000-64625	20000728
	US 2004053989	A1	20040318	US 2003-612476	20030702
PRAI	US 1999-145964P	P	19990729		
	IE 2000-302	A	20000413		
	IE 2000-304	A	20000413		
	US 2000-198338P	P	20000418		
	US 2000-627641	B1	20000728		
	WO 2000-IB1146	W	20000728		

OS MARPAT 134:157573

AB The invention provides methods to treat neurol. disorders such as Alzheimer's disease, or to slow the progression of such diseases, or to treat and/or prevent other disorders as disclosed in the specification, by administering to patients, or delivering to the tissues of such patients, oltipraz or related 1,2-dithiole-3-thiones. The effects of oltipraz on A β 1-42 neurotoxicity, oxidative stress, removal of iron from tissues, localization of 8-hydroxyguanosine (predominantly derived from •OH attack of guanidine), mitochondrial damage as well as its antiprotozoal activity were examined. Synthesis of oltipraz is presented.

L22 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:725501 CAPLUS

DN 130:192487

TI Molecular basis of neurological dysfunction coupled with hemolytic anemia in human glucose-6-phosphate isomerase (GPI) deficiency

AU Kugler, Wilfried; Breme, Kathrin; Laspe, Petra; Muirhead, Hilary; Davies, Christopher; Winkler, Heinz; Schroter, Werner; Lakomek, M.

CS Universitats-Kinderklinik, Robert-Koch-Strasse 40, Gottingen, D-37075, Germany

SO Human Genetics (1998), 103(4), 450-454

CODEN: HUGEDQ; ISSN: 0340-6717

PB Springer-Verlag

DT Journal

LA English

AB Glucose-6-phosphate isomerase (GPI) deficiency, an autosomal recessive genetic disorder with the typical manifestation of nonspherocytic hemolytic anemia, can be associated in some cases with neurol. impairment. GPI was found to be identical to neuroleukin (NLK), which has neurotrophic and lymphokine properties. To focus on the effects of GPI mutations on the central nervous system through an effect on neuroleukin activity, the authors analyzed DNA isolated from 2 patients with severe GPI deficiency, 1 of them with addnl. neurol. deficits, and their families. The neurol. affected patient (GPI Homburg) is compound heterozygous for a 59 A→C (H20P) and a 1016 T→C (L339P) exchange. Owing to the insertion of Pro, the H20P and L339P mutations are likely to affect the folding and activity of the enzyme. In the 2nd family studied, the 2 affected siblings showed no neurol. symptoms. The identified mutations are 1166 A→G (H389R) and 1549 C→G (L517V), which are located at the subunit interface. The authors propose that mutations

that lead to incorrect folding destroy both catalytic (GPI) and neurotrophic (NLK) activities, thereby leading to the observed clin. symptoms (GPI Homburg). Those alterations at the active site, however, that allow correct folding retain the neurotrophic properties of the mol. (GPI Calden).

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:682105 CAPLUS

DN 129:298408

TI Nitrosylation to inactivate apoptotic enzymes, and therapeutic caspase-like peptide

IN Lipton, Stuart A.; Troy, Carol M.

PA The Children's Medical Center Corp., USA

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9843621	A1	19981008	WO 1998-US6287	19980331
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 979073	A1	20000216	EP 1998-913316	19980331
	R: DE, ES, FR, GB, IT				
	JP 2001518096	T	20011009	JP 1998-541915	19980331
	US 2002106404	A1	20020808	US 2002-55417	20020122
	US 2004265369	A1	20041230	US 2004-839434	20040505
	US 2007218121	A1	20070920	US 2006-594565	20061108
PRAI	US 1997-42144P	P	19970331		
	US 1998-52826	B1	19980331		
	WO 1998-US6287	W	19980331		
	US 2002-55417	A1	20020122		
	US 2004-839434	B1	20040505		

OS MARPAT 129:298408

AB S-nitrosylation (reaction of nitric oxide [NO] species with critical cysteine sulfhydryl groups of a caspase [RS] to form RS-NO) inhibits caspase activity and thereby ameliorates apoptosis not only in neuronal cells, but also in other tissues. Addnl., ICE-like (caspase-like) sequence ICARG is used to protect from excitotoxic neuronal damage and neurol. as well as non-neurol. and non-ophthalmol. indications characterized by undesired apoptosis.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:450407 CAPLUS

DN 129:160675

TI Production of D-[1-13C]glucose from [13C]formaldehyde and D-ribose-5-phosphate using an enzymic system

AU Maeda, Hidekatsu; Takata, Kohhei; Toyoda, Atsushi; Shibata, Kunihiro

CS Department of Bioengineering, Faculty of Engineering, Soka University, Tokyo, 192-8577, Japan

SO Journal of Fermentation and Bioengineering (1998), 85(5), 536-538

CODEN: JFBIEX; ISSN: 0922-338X

PB Society for Fermentation and Bioengineering, Japan

DT Journal

LA English

AB D-[1-13C]Glucose is useful for studies on tracing by means of 13C-magnetic resonance imaging (MRI) the fate of a metabolite in the brain, and this technique is expected to become a sophisticated clin. tool for the diagnosis of neurol. disorders. For this purpose, a

more efficient method of producing inexpensive ¹³C-labeled D-glucose is necessary, and was investigated. When a mixture of the labeled D-fructose-6-phosphate (F-6-P) and D-glucose-6-phosphate (G-6-P) prepared from D-ribose-5-phosphate and [¹³C]formaldehyde is dephosphorylated by potato acid phosphatase, a combination of potato acid phosphatase, phosphoglucose isomerase, and BaCl₂ was found to be effective in improving the yield of D-glucose and shortening the reaction time. The maximum yield of labeled D-glucose from the mixture of labeled F-6-P and G-6-P was 84%. Two peaks indicative of labeled D-glucose with ¹³C incorporated at the C-1 position were confirmed by the NMR spectroscopy.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:663597 CAPLUS

DN 127:344475

TI Erythrocyte pyruvate kinase- and glucose phosphate isomerase deficiency: perturbation of glycolysis by structural defects and functional alterations of defective enzymes and its relation to the clinical severity of chronic hemolytic anemia

AU Lakomek, Max; Winkler, Heinz

CS Universitaets-Kinderklinik und Poliklinik and Max Planck Institut fuer biophysikalische Chemie, Gottingen, Germany

SO Biophysical Chemistry (1997), 66(2-3), 269-284

CODEN: BICIAZ; ISSN: 0301-4622

PB Elsevier

DT Journal; General Review

LA English

AB A review, with 54 refs., of primarily the authors' work. The pathogenesis of two metabolic disorders caused by enzyme defects in the red blood cell leading to hemolytic anemia, and in some cases of glucose phosphate isomerase (GPI) deficiency addnl. to neurol. impairment was investigated. Rheol. studies were performed to determine the influence of a shortage of energy on the deformability of the erythrocytes. The functions of the enzymes were determined by studying the enzyme kinetics, the temperature dependence of the enzyme activity, and the migration of the proteins in an elec. field. A detailed mol. genetic anal. of the gene encoding for the given protein allowed the detection of mutations involving amino acid exchanges which cause alterations of the protein structure. For both enzyme deficiencies, a good correlation was found between the structural changes (usually caused by single point mutations in the gene), the altered function of the enzymes and the severity of the clin. picture. The exchange of amino acids close to either the active site or the regulatory domain results in a decreased turnover as well as an alteration of the regulatory properties of the enzymes; this usually leads to an increased severity of the disease. Increased concns. of glucose 6-phosphate (G-6-P), found in all red blood cells of patients suffering from hemolytic anemia caused by pyruvate kinase (PK) and GPI deficiency, correlate well with the severity of the clin. picture, apparently reflecting the degree of the perturbation of glycolysis. This results in a lack of the energy donor ATP; this leads then to a destabilization of the red cell membrane which causes earlier lysis of the red blood cell, which in turn gives rise to hemolytic anemia of variable degrees. One patient with neurol. symptoms has been studied so far biochem. and at the mol. genetic level. The point mutations found in this patient's GPI gene support the idea that GPI may have a neurol. function in addition to its role in the carbohydrate metabolism; this is due to the presence of a monomeric sequence analog called neuroleukin (NLK). The mutations apparently lead to the incorrect folding of this neurotrophic factor, and thus destroy the neurol. activity.

RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:338610 CAPLUS

DN 127:16017

TI Glutathione in the brain: disorders of glutathione metabolism

AU Cooper, Arthur J. L.

CS Cornell University Medical College, New York, NY, USA

SO Molecular and Genetic Basis of Neurological Disease (2nd Edition) (1997), 1195-1230. Editor(s): Rosenberg, Roger N. Publisher: Butterworth-Heinemann, Boston, Mass.

CODEN: 64KBAL

DT Conference; General Review

LA English

AB A review, with 478 refs. Glutathione (GSH) occurs in all regions of the brain at levels in the range of 1-3 mM; low levels (25 μ M) occur in cerebrospinal fluid. All the enzymes of the γ -glutamyl cycle, glutathione disulfide (GSSG) reductase, GSH peroxidases, thiol transferases, and GSH S-transferases (GSTs), are present in brain. Compared with many other tissues, brain has somewhat limited mechanisms for protection against the effects of reactive oxygen compds. and free radicals. GSH metabolism in brain is probably compartmentalized. Astrocytes contain substantial levels of GSH and GSTs. The available information suggests that astrocytes function importantly in protecting brain against reactive oxygen species and other toxic compds. Recent evidence suggests that nerve endings also contain GSH and that GSH is released from this pool. Astrocytes contain high-affinity binding sites for GSH. Moreover, GSH appears to be an endogenous agonist of the N-methyl-D-aspartate (NMDA) glutamate receptor, and GSH may be a neurotransmitter in the spinal cord. Small quantities of GSH may be transported intact across the blood-brain barrier (BBB) in adult animals, but the contribution of this process to whole brain GSH is probably small. Total brain GSH has been reported to turn over with a half-life of 70 h. A portion of the brain GSH, however, turns over rapidly (half-life of approx. 30 min). This rapidly turned over GSH pool may be in the astrocytes. Depletion of brain GSH has been accomplished by administration of L-buthionine-S,R-sulfoximine (BSO, a selective inhibitor of γ -glutamylcysteine synthetase) or of compds. that react with GSH in the GST-catalyzed reaction. Methods for increasing brain GSH levels have also been devised. γ -Glutamyl transpeptidase is present in high levels in brain capillaries and associated pericytes, and this enzyme may play a role in the normal functioning of the intact BBB. Several inborn errors of the γ -glutamyl cycle are known, including defects of glutathione synthetase, γ -glutamylcysteine synthetase, γ -glutamyl transpeptidase, and 5-oxoprolinase. Other conditions that affect GSH metabolism, such as GSH peroxidase deficiency, GSSG reductase deficiency, and glucose-6-phosphate dehydrogenase deficiency, are discussed here. Many of the patients with such defects have neurol. abnormalities, which attests to the importance of GSH in normal brain function.

L22 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:438559 CAPLUS

DN 125:131350

TI Drug-induced methemoglobinemia: Treatment issues

AU Coleman, Michael D.; Coleman, Nicholas A.

CS Department Pharmaceutical Sciences, Aston University, Birmingham, UK

SO Drug Safety (1996), 14(6), 394-405

CODEN: DRSAEA; ISSN: 0114-5916

PB Adis

DT Journal; General Review

LA English

AB A review with 84 refs. In normal erythrocytes, small quantities of methHb are formed constantly and are continuously reduced, almost entirely by the reduced nicotine adenine dinucleotide (NADH) diaphorase system, rather than the reduced nicotine adenine dinucleotide phosphate (NADPH)

diaphorase system. Methemoglobinemias are usually the result of xenobiotics, either those that may directly oxidize Hb or those that require metabolic activation to an oxidizing species. The most clinically relevant direct metHb formers include local anesthetics (such as benzocaine and, to a much lesser extent, prilocaine) as well as amyl nitrite and iso-Bu nitrite, which have become drugs of abuse. Indirect, or metabolically activated, metHb formation by dapsone and primaquine may cause adverse reactions. The clinical consequences of methemoglobinemia are related to the blood level of metHb; dyspnea, nausea and tachycardia occur at metHb levels of $\geq 30\%$, while lethargy, stupor and deteriorating consciousness occur as metHb levels approach 55%. Higher levels may cause cardiac arrhythmias, circulatory failure and neurologic depression, while levels of 70% are usually fatal. Cyanosis accompanied by a lack of responsiveness to 100% oxygen indicates a diagnosis of methemoglobinemia, which should be confirmed using a CO-oximeter. Pulse oximeters do not detect metHb and may give a misleading impression of patient oxygenation. Methemoglobinemia is treated with i.v. methylene blue (methylthioninium chloride; 1 to 2 mg/kg of a 1% solution). If the patient does not respond, perhaps because of glucose-6-phosphate dehydrogenase (G6PD) deficiency or continued presence of toxin, admission to an intensive care unit and exchange transfusion may be required. Dapsone-mediated chronic metHb formation can be reduced by co-administration of cimetidine to aid patient tolerance. Increasing knowledge and awareness of drug-mediated acute methemoglobinemia among physicians should lead to prompt diagnosis and treatment of this potentially life-threatening condition.

L22 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:677655 CAPLUS

DN 121:277655

TI Iron and aluminum homeostasis in neural disorders

AU Joshi, Jayant G.; Dhar, Madhu; Clauberg, Martin; Chauthaiwale, Vijay

CS Department Biochemistry, University Tennessee, Knoxville, TN, 37996-0840, USA

SO Environmental Health Perspectives Supplements (1994), 102(SUPPL. 3), 207-13

CODEN: EHPSEO; ISSN: 1078-0475

DT Journal; General Review

LA English

AB A review with 53 refs. The brain is the most compartmentalized organ. It is also highly aerobic. Because nerve cells grow but do not regenerate, the brain is the organ best suited for the accumulation of metabolic errors colocalized in specific areas of the brain over an extended period. Alzheimer's disease (AD) is primarily a neurologic disorder of the elderly. It is suggested that this disorder results from the accumulation of such errors, and that AD onset aluminum and iron contribute to but do not necessarily initiate the onset of the disease. In vitro and in vivo evidence summarized here suggests that this is effected by interfering in the utilization of glucose and glucose-6-phosphate, and sequestration of iron by ferritin. β -Amyloid precursor proteins (β -APPs) are normal components of the human brain and some other tissues. Proteolysis of these, presumably by serine proteases, generates a 39 to 42 amino acid long peptide, the α -amyloid (β -AP). In AD brains, β -AP aggregates into plaque, the hallmark of AD brains. Some of the α -APPs also contain a 56 amino acid long segment which inhibits serine proteases. The authors show that in vitro, at pH 6.5, aluminum activates β -chymotrypsin 2-fold and makes it dramatically resistant to protease inhibitors such as bovine pancreatic trypsin inhibitor (bPTI) or its mimic present in the β -amyloid precursor proteins (β -APPs). Iron and oxygen are reported to favor crosslinking of β -AP in vitro. Because iron and ferritin are components of neurotic plaques, and acidic pH are reported in AD brains, the authors suggest that deregulation of iron and aluminum homeostasis permit their colocalization, and contribute to the

accumulation of metabolic errors leading to neuronal disorders including the formation of AD (senile) plaques.

L22 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:47164 CAPLUS

DN 120:47164

TI Transcriptional organization of a 450-kb region of the human X chromosome in Xq28

AU Bione, S.; Tamanini, F.; Maestrini, E.; Tribioli, C.; Poustka, A.; Torri, G.; Rivella, S.; Toniolo, D.

CS Consigl. Naz. Ric., Ist. Genet. Biochim. Evol., Pavia, 27100, Italy

SO Proceedings of the National Academy of Sciences of the United States of America (1993), 90(23), 10977-81
CODEN: PNASA6; ISSN: 0027-8424

DT Journal

LA English

AB The transcriptional organization of a 450-kb gene cluster in human chromosome Xq28, flanked by the glucose-6-phosphate dehydrogenase and the color vision genes, was studied. CpG islands previously identified and mapped to distal Xq28 have helped in construction of a continuous contig of cosmids and in identification of cDNAs corresponding to 8 transcripts. Thirteen to 16 small genes with CpG islands are clustered in a region of 250-300 kb. Many are highly expressed in muscle or brain and may be the genes responsible for muscle or neurol. disorders mapped to distal Xq28. In this region of the genome, genes not related in sequence are organized in transcriptional domains of 100 kb and this organization may be important for establishing and regulating gene expression in relation to tissue distribution and X chromosome inactivation.

L22 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1983:610312 CAPLUS

DN 99:210312

TI The rate of utilization of glucose via hexose monophosphate shunt in brain

AU Gaitonde, M. K.; Evison, E.; Evans, G. M.

CS Med. Sch., St. George's Hosp., London, UK

SO Journal of Neurochemistry (1983), 41(5), 1253-60
CODEN: JONRA9; ISSN: 0022-3042

DT Journal

LA English

AB The concentration of 6-phosphogluconate in the brain increased from 0-24 nmol/g in the controls to 1430 and 1506 nmol/g in rats treated with 50 mg 6-aminonicotinamide (I)/kg body weight. A dose-dependent increase in the concns. of glucose and glucose 6-phosphate as well as of 6-phosphogluconate was found in the brains of I-treated rats. The biochem. changes and symptoms of neurol. disorder in I-treated rats were not due to hypothermia. The rate of utilization of glucose via the hexose monophosphate shunt was determined by isolation of gluconate from 6-phosphogluconate and measurement of its ¹⁴C content at short time intervals after injection of [U-¹⁴C]glucose into I-treated rats; it was 16.5 nmol glucose utilized/min/g brain, and represented .apprx.2.3% of the overall utilization of glucose in the brain. A highly significant correlation was observed between the concentration of

6-phosphogluconate and the concentration of glucose 6-phosphate and free glucose. The validity of this correlation was supported by the results of previous investigations involving several other treatments.

L22 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:527946 CAPLUS

DN 75:127946

OREF 75:20191a

TI Histopathologic and enzyme histochemical observations of the

cuprizone-induced brain edema

AU Kesterson, James W.; Carlton, William W.

CS Sch. Vet. Sci. Med., Purdue Univ., Lafayette, IN, USA

SO Experimental and Molecular Pathology (1971), 15(1), 82-96

CODEN: EXMPA6; ISSN: 0014-4800

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB Progressively severe and disseminated status spongiosus and astrocytosis occurred in the brain of mice fed the neurotoxin cuprizone (I) (0.3% of the diet). Normal astrocytes showed little or no oxidative enzyme activity, whereas pathol. astrocytes exhibited strong activity for the various enzymes studied. Weak glutamate dehydrogenase (GDH) activity was found in astrocytes after only 3 days of I feeding, followed (after ≥ 5 days) by strong activity for GDH, NAD diaphorase, and lactic dehydrogenase. Increased activity of NADP diaphorase, glucose-6-phosphate dehydrogenase, and succinic dehydrogenase was observed in pathol. astrocytes late in the experiment, but these enzymes never

reached the level of GDH and NAD diaphorase. The edema and the increased oxidative enzymes of the astrocytes generally paralleled each other in severity.

L22 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1968:67321 CAPLUS

DN 68:67321

OREF 68:12971a

TI Oxidative metabolism of the brain in experimental cerebral edema

AU Pausescu, Exacustodian; Schwartz, Beno; Chirvasie, Rodica; Dinca, Alice

CS Clin. Hosp. Fundeni, Bucharest, Rom.

SO Experimental Neurology (1967), 19(4), 455-62

CODEN: EXNEAC; ISSN: 0014-4886

DT Journal

LA English

AB In dogs of both sexes cerebral edema was induced by the intraarterial injection of grains of polyurethan. The animals were killed after 1 or 2 days when in most of the animals neurological disorders had developed. Succinic dehydrogenase (I), NAD-specific isocitric dehydrogenase (II), glutamyl transferase (III), glucose-6-phosphate dehydrogenase (IV), α -ketoglutaric dehydrogenase (V), and phosphatase activities were studied in gray and white matter samples taken from both brain hemispheres. The ability of the cerebral tissue to oxidize in vitro isocitrate, α -ketoglutarate, and succinate in the presence of absence of 2,4-dinitrophenol was also investigated. The increase in water content in the brain was 5.30% in the injured hemisphere. Activity of dehydrogenases (I and IV) in the edematous cerebral tissue did not significantly change, though a tendency or activation of II and V within area surrounding the edema focus was observed. III activity in the edematous tissue was increased by .apprx.80%. Phosphatase activity in the edematous cerebral tissue showed a dissimilar evolution; acid phosphatase became more active with an increase of .apprx.35% and alkaline phosphatase was not affected. Compared to the normal tissue, the edematous cerebral tissue oxidized isocitrate in vitro at a slightly higher rate and α -ketoglutarate and succinate at a slightly lower rate. However, in vitro oxidative activity in the edematous cerebral tissue was lesser influenced by 2,4-dinitrophenol than the in vitro oxidative activity of normal cerebral tissue. These observations suggested that the effect of cerebral edema was related to decreased high-energy phosphate metabolism with subsequent alteration of oxidative phosphorylation of some substrates. The changes of enzyme activity produced by an O shortage in the brain were discussed. 25 references.

L22 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1967:114073 CAPLUS
 DN 66:114073
 OREF 66:21175a,21178a
 TI Enzyme activity in serum and cerebrospinal fluid in normal subjects and subjects with neurologic and psychiatric diseases
 AU Amabile, Giuseppe; Pizzo, Paolo A.
 CS Univ. Rome, Rome, Italy
 SO Rivista di Neurologia (1966), 36(6), 553-61
 CODEN: RINEAG; ISSN: 0035-6344
 DT Journal
 LA Italian
 AB Glucose-6-phosphate dehydrogenase (I), leucine aminopeptidase (II), and malate dehydrogenase (III) were determined in the blood serum and cerebrospinal fluid (CSF) of bedridden neurological and mental patients. Blood and CSF were drawn simultaneously and centrifuged 10 min. at 2500 rpm. and 4°. Subjects in good health were used for controls. No correlation between serum and CSF content of the enzymes was found. I, II, and III were found in both fluids. I was highest in CSF in encephalomyelitis and neurosyphilis. II was highest in CSF in sclerosis, encephalomyelitis, and adenoma of the hypophysis. III was highest in CSF in encephalomyelitis. All 3 enzymes were high in chronic alcoholism. Serum I was also elevated in epilepsy.

L22 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1966:406406 CAPLUS
 DN 65:6406
 OREF 65:1204c-d
 TI Cerebrospinal fluid enzymes in some neurological disorders
 AU Tsvetanova, E.; Doseva, I.
 CS Bulgarian Acad. Sci., Sofia
 SO Nevrolog. Psikhiatr. Nevrokhirurg. (1966), 5(1), 39-48
 DT Journal
 LA Bulgarian
 AB A review of the changes of enzymic activity of aldolase, lactic dehydrogenase, malic hydrogenase, glucose-6-phosphate isomerase, isocitric dehydrogenase, creatine phosphokinase, α -amylase, phosphatases, transaminases, cholinesterase, RNase, and DNase in cerebrospinal fluid during some neurological disorders. 99 references.

=> dis hist

(FILE 'HOME' ENTERED AT 15:23:35 ON 02 NOV 2007)

FILE 'APOLLIT, MEDLINE, BIOSIS, EMBASE, BABS, CAPLUS, CBNB, CIN, COMPENDEX, DISSABS, EMA, IFIPAT, NTIS, PASCAL, PROMT, RAPRA, SCISEARCH, TEXTILETECH, USPATFULL, USPATOLD, USPAT2, WPIFV, WPINDEX, WSCA, WTEXTILES' ENTERED AT 15:26:19 ON 02 NOV 2007

L1 192059 S NEUROLOGICAL AND DISORDER
 L2 3665 S L1 AND (MANNOSE OR GULOSE OR GLUCOSE-6-PHOSPHATE)
 L3 1090 S L2 AND (CAMP AND MODULATOR)
 L4 11 S L3 AND ONCOMODULIN
 L5 1062 S L3 AND (STROKE OR ANEURISM OR SPINAL OR PARKINSON OR SCLEROS
 L6 832 S L5 AND MACROPHAGE
 L7 832 S L6 AND FACTOR
 L8 661 S L7 AND TGF
 L9 620 S L8 AND ALZHEIMER
 L10 10 S L9 AND ONCOMODULIN
 L11 619 S L9 AND NEURON?
 L12 408 S L8 AND GLAUCOMA
 L13 368 S L12 AND INTRAOCULAR

L14 367 S L13 AND INJECT?
L15 6805 S L1 AND RETINA?
L16 358 S L14 AND RETINA?
L17 5 S L10 AND MACULAR

FILE 'CAPLUS' ENTERED AT 15:43:13 ON 02 NOV 2007

L18 69 S BENOWITZ LARRY I?/AU
L19 5 S L18 AND NEUROLOGICAL
L20 24 S L1 AND MANNOSE
L21 2 S L1 AND GULOSE
L22 16 S L1 AND GLUCOSE-6-PHOSPHATE

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2845	514/23	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:00
S2	1697	S1 and (mannose or gulose or glucose)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:01
S3	1700	S1 and (mannose or gulose or glucose\$)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:01
S4	175	S3 and neurolog\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:21
S5	10	S4 and (macrophare or ionophore or phosphodiesterase or adrenoreceptor)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:23
S6	47	S4 and (macrophage or ionophore or phosphodiesterase or adrenoreceptor)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:04

EAST Search History

S7	364	S3 and (stroke or aneurism or spinal or parkinson's or sclerosis or alzheimer or atropy or picks or dementia)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:21
S8	355	S7 and treat\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:22
S9	24	S1 and (glucose ADJ phosphate)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:20
S10	1	S9 and neurolog\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:17
S11	35511	(mannose or gulose) or (glucose ADJ phosphate)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:22
S12	2681	S11 and neurolog\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/31 16:22

EAST Search History

S13	7625	S11 and (stroke or aneurism or spinal or parkinson's or sclerosis or alzheimer or atropy or picks or dementia)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:21
S14	34686	(mannose or gulose)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:22
S15	2617	S14 and neurolog\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/31 16:22
S16	2602	S15 and treat\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:22
S17	541	S16 and (macrophare or ionophore or phosphodiesterase or adrenoreceptor)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:23
S18	1453	S16 and (macrophage or ionophore or phosphodiesterase or adrenoreceptor)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:24

EAST Search History

S19	6263	S14 and (macrophage or ionophore or phosphodiesterase or adrenoceptor)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	OFF	2007/10/31 16:24
S20	484	S19 and (neurological ADJ disorder)	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/31 16:25
S21	484	S20 and treat\$	US-PGPU B; USPAT; EPO; JPO; DERWEN T	OR	ON	2007/10/31 16:25